

L 9h30-66 ENT(m)/T/ENT(t)/ENP(b) IJP(c) JI) ACC RRY AT5025547 SOURCE (CDE: UR/3168/62/000/001/0003/0005 AUTHORS: Ametov, M. Yu.; Polyakov, S. M. ORG: Azerbaidzhan Petroleum and Chemical Institute im. M. Azizbekov pul, 55 D+ 1 TITLE: Increasing the life of parts operating in a furnace gas atmosphere by liquid calorizing 4 SOURCE: Baku. Azerbaydzhanskiy institut nauchno-takhnicheskoy informatsii. Sbornik nauchno-tekhnicheskoy informatsii. Soriya Mashinoutroitel'naya promyahlennost', no. 1, 1962. Tekhnika i tekhnologiya v mashinostroyenti. (Engineering and technology in machinery manufacture), 3-9 TOFIC TAGS: calorizing, muffle furnace, aluminum, metal coating/ ST3 steel alloy, ACh 3 aluminum (4 ABSTRACT: Liquid calorizing (aluminum coating) to increase the life of steel parts operating in a furnace atmosphere (muffle furnace) was investigated. Specimens (2Ci x 70 mm) of steel SF3 were cleaned and dipped into a molten aluminum bath (6-5% iron content) at temperatures of 700-900C. It was found that the best temperature			
ORG: Azerbaidzhan Petroleum and Chemical Institute im. M. Azizbekov 44,55 (Azerbaydzhanskiy institut nefti i khimii) TITLE: Increasing the life of parts operating in a furnace gas atmosphere by liquid calorizing SOURCE: Baku. Azerbaydzhanskiy institut nauchno-takhnicheskoy informatsii. Sbornik nauchno-tekhnicheskoy informatsii. Seriya Mashinoutroitel'naya promyshlennost', no. 1, 1962. Tekhnika i tekhnologiya v mashinostroyenti. (Engineering and technology in machinery manufacture), 3-9 TOFIC TAGS: calorizing, muffle furnace, aluminum, metal coating/ ST3 steel alloy, ACh 3 aluminum ABSTRACT: Liquid calorizing (aluminum coating) to increase the life of steel parts operating in a furnace atmosphere (muffle furnace) was investigated. Specimens (20 x 70 mm) of steel SF3 were cleaned and dipped into a molten aluminum bath (6-8% irom content) at temperatures of 700-900C. It was found that the best temperature	.	L 9130-66 EWT(m)/T/EWI'(t)/EWP(b) IJP(c) JII CC WR: AT5025547 SOURCE CCDE: UR/3168/62/000/001/0003/0005	
SOURCE: Baku. Azerbaydzhanskiy institut nauchno-tekhnicheskoy informatsii. Sbornik nauchno-tekhnicheskoy informatsii. Seriya Mashinoutroitel'naya promyshlennost', no. 1, 1962. Tekhnika i tekhnologiya v mashinostroyenti. (Engineering and technology in machinery manufacture), 3-9 TOFIC TAGS: calorizing, muffle furnace, aluminum, metal coating/ST3 steel alloy, ACh 3 aluminum ABSTRACT: Liquid calorizing (aluminum coating) to increase the life of steel parts operating in a furnace atmosphere (auffle furnace) was investigated. Specimens (20 x 70 mm) of steel ST3 were cleaned and dipped into a molten aluminum bath (6-8% iron content) at temperatures of 700-900C. It was found that the best temperature	0	RG: Azerbaidzhan Petroleum and Chemical Institutie im. M. Azizbekov 44,55	F.
nauchno-tekhnicheskcy informatsii. Seriya hashinostrolter hays promyshiemnosty, not 1, 1962. Tekhnika i tekhnologiya v mashinostroyenii. (Engineering and technology in machinery manufacture), 3-9 TOFIC TAGS: calorizing, muffle furnace, aluminum, metal coating/ ST3 steel alloy, ACh 3 aluminum ABSTRACT: Liquid calorizing (aluminum coating) to increase the life of steel parts operating in a furnace atmosphere (auffle furnace) was investigated. Specimens (20 x 70 mm) of steel ST3 were cleaned and dipped into a molten aluminum bath (6-8% iron content) at temperatures of 700-900C. It was found that the best temperature	c	calprising 4	
ACE 3 aluminum ABSTRACT: Liquid calorizing (aluminum coating) to increase the life of steel parts operating in a furnace atmosphere (muffle furnace) was investigated. Specimens (20 x 70 mm) of steel SF3 were cleaned and dipped into a molten aluminum bath (6-8% iron content) at temperatures of 700-900C. It was found that the best temperature	1	nauchno-tekhnicheskoy informatsii. Seriya Mashinostroltei naya promyshieshoo y not 1. 1962. Tekhnika i tekhnologiya v mashinostroyenii. (Engineering and technology in	
ABSTRACT: Liquid calorizing (aluminum coating) to increase the life of steel parts operating in a furnace atmosphere (anifile furnace) was investigated. Specimens (20 x 70 mm) of steel ST3 were cleaned and dipped into a molten aluminum bath (6-8% iron content) at temperatures of 700-900C. It was found that the best temperature	ŋ [ACh 3 aluminum	
Card 1/2	19	ABSTRACT: Liquid calorizing (aluminum coating) to increase the life of steel parts operating in a furnace atmosphere (auffle furnace) was investigated. Specimens (20 - 70 -) of steel SP3 were cleaned and dipped into a molten aluminum bath (6-8%)	
		Card 1/2	

L 9430-66 ACC NR: AT5025547 range was 750-8000 and that normal (secondary) aluminum of type ACh-3 could be used. Dipping for 10, 20, 50, and 60 minutes showed that an aluminum ferrite coating of 0.07 mm (10 minutes) to 0.45 mm (60 minutes) was formed which showed satisfactory bonling for dipping times of 30 and 60 minutes. The specimens were subjected to 1100C for 24 hours in a laboratory furnace and to 920-950C for 10 days under industrial conditions. Comparison with uncalorized specimens showed that the latter had lost almost one half of their weight, while the calorized specimens showed no oxidation effects. Calorized standard muffle furmuses (240-mm diameter, 170-mm high, 10-mm thick) were compared with uncalorized furnamen under industrial conditions (900-9500 for 16-24 hours, cooling, and then repeating the cycle). The uncalorised muffles failed after 12 cycles, the calorized failed after 10-22 cycles. In all cases it was found that failure occurred at the wollds, not because of calorized material deterioration. Similar experiments using low carbon steel (C = 0.17%) showed a muffle life increase by a factor of 4-5 for calorized muffles. Orig. art. has: 4 figures. SUE CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 1004/

CITETATORI RANDINGIA RANDINGIA DI RANDINGIA

FROLOV, A.; MISHUROV, N.; GO TODNICHENKO, I.; ZAGOLUYKO, M.; AMETSHAYEV, I.

The virgin lands should have fully qualified machine-operating personnel. Prof.-tekh. obr. 18 no.1:1-2 Ja *61. (MIRA 14:2)

1. Direktor Uchilishcha mekhanizatsii sel'skogo khozyaystva No.35
Severo-Kazakhstanskoy oblasti (for Frolov). 2. Direktor Uchilishcha
mekhanizatsii sel'skogo khozyaystva No. 47 TSelinnogo kraya (for
Mishurov). 3. Direktor Uchilishcha mekhanizatsii sel'skogo khozyaystva
No.13 Zapadno-Kazakhstanskoy oblasti (for Gorodnichenko). 4. Direktor
Uchilishcha mekhanizatsii sel'skogo khozyaystva No. 76 Kustanayskoy
oblasti (for Zagoruyko). 5. Direktor Uchilishcha mekhanizatsii sel'skogo khozyaystva No.23 Alma-Atinskoy oblasti (for Ametslayev).

(Kazakhstan-Farm mechanization-Study and teaching)

AMFILOR HIYEU, A.V., kund.tekhn.nauk; AMFILOKHIYEV, A.A., red.; GVIRTS, V.L., tekhn.red.

[Prefabricated-sectional pavement made of latticed reinforced concrete slabs] Sborno-rasbornye doroshnye pokrytiia is reshetchatykk; shelesobetonnykh plit. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1955. 13 p. (Informatsionno-tekhnicheskii listok, no.2(50))

(Pavements, Concrete)

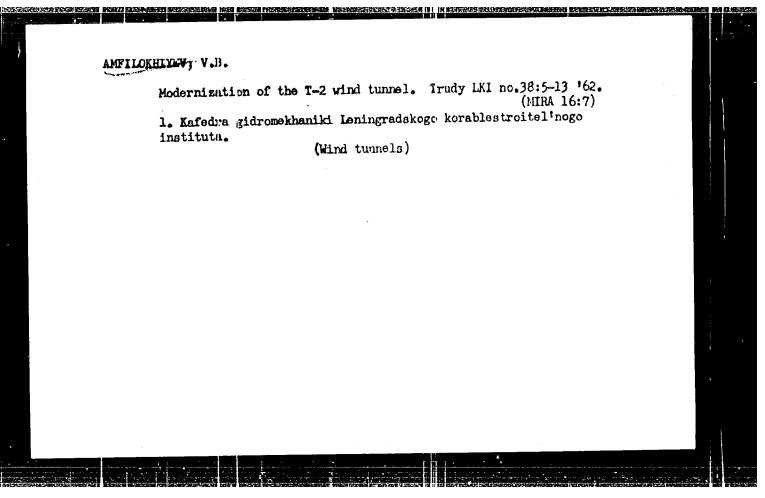
(MIRA 11:1)

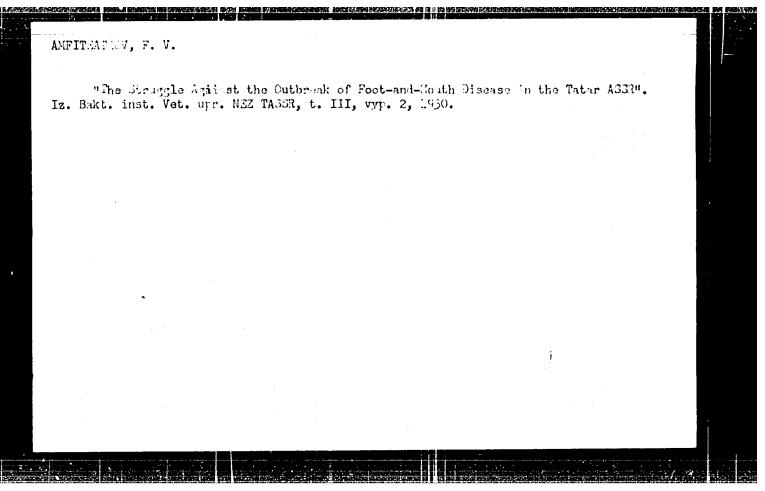
AMPILOKHIYEVA, M.B.; VOROBIYEVA, Ye.Ye.; ROGOVA, O.P.

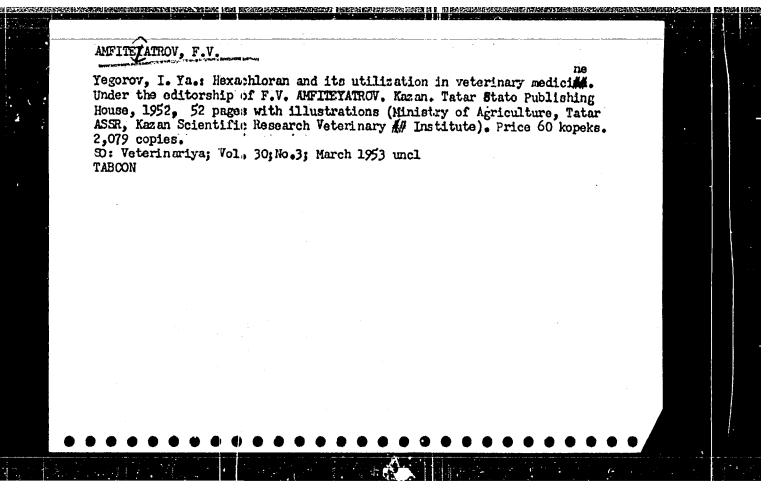
V.E.Hogovin's method for treating the umbilicus. Vop.okh.mat, i det.
3 no.1:73-76 Ja-F '58.

1. Is akushereko-ginekologicheskoy kliniki lechebnogo fakul'teta
II Moskovskogo meditsinskogo instituta (zav. kafedroy - prof. I.F.
Zhordanis) i 1-y Gorodakoy klinicheskoy bol'nitsy imeni N.I.Pirogovs
(glavnyy vrach - zaslurhennyy vrach RSPSR L.D.Chernyshov)

(UMBILICUS)





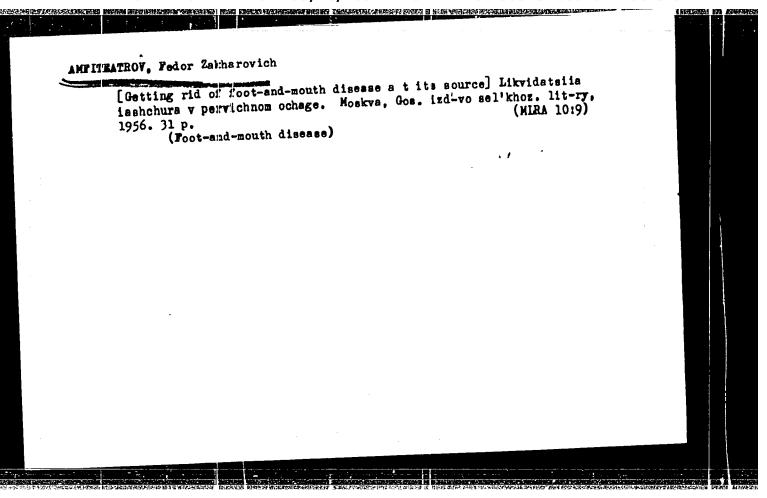


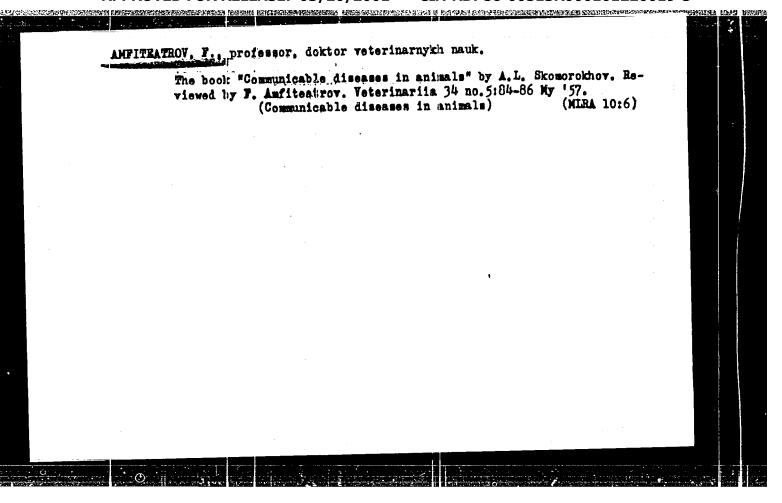
AMPITEATROV, F.T., dektor veterinarnykh mank; FECTAV, V.E.: SERICERRIY, V.A.;

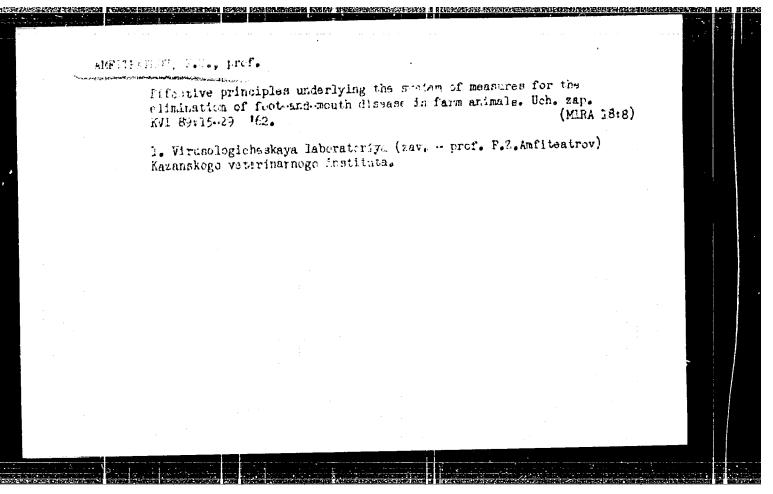
Using dry virus vaccino made by the State Scientific Control
Institute for Veterinary Preparations against feet-and-mouth
disease. Veterinaria 40 no.8:15-16 Ag 189. (Blad 17:10)

1. Kazanskiy veterinarnyy institut (for Amfiteatrow). 2. Starshiy
veterinarnyy vrach Veterinarnogo otdeln Miniterstva proizvodstva
veterinarnyy vrach Veterinarnogo talam Miniterstva proizvodstva izagotovik so''tkokhozyayatvannykh produktov Tatarskoy ASSR (for Amunayay).

otdela Ministerstva proizvodstva izagotoski sel'skokhozyayatvennykh
produktov Catarskoy ASSR (for Amunayay).





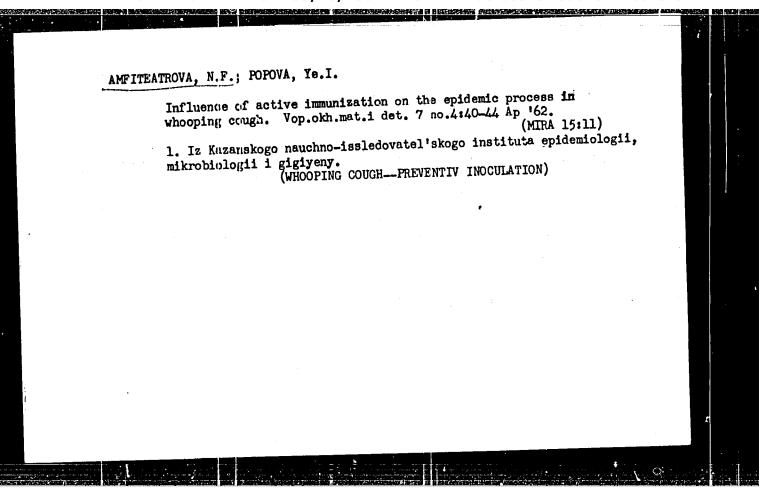


	3		
AMFIT	EATROV	N_{i} , N_{i}	
		and and a property of the control of	
) a 17 (3, 6)	aox/16-60-\$-8/47	
	AUTHOR	flatyrteeva, I.Ye., Hemahilova, N.A., Khisamutdinov, A.G., Saydasheva, h.Q., Editestrova, E.G., Rollolkova, V.K. and folosova, R.K.	
	TITLE	A Study of the Resetogenicity of Pertussis-Diphtheris Vaccine	
	PERIODICAL	thurnal mikrohiologii, epideniologii i immediologii, 1960, Nr 4, VDL 3/	
	ABSTRACTS	The authors assessing the data on the resatagonicity of perturbing the diphtheria vascine, derived from mass imm misation with such vaccine prepared by the Institut mixrobiologit in pidemiologii immi Gamaleyi and Sidemiology immi Gamaleya Apri asses (Institute of Microbiology and Sidemiology immi Gamaleya Apri asses (Institute of Microbiology and Sidemiology immi Gamaleya Apri asses (Institute of Microbiology and Sidemiology immi Gamaleya Apri asses (Institute of Microbiology and Sidemiology immi Gamaleya Apri asses (Institute of Microbiology and Sidemiology immi Gamaleya Apri asses (Institute of Microbiology and Sidemiology immi Gamaleya Apri asses (Institute of Microbiology immi Gama	
		ANY ASSN (Institute of pirroscology and the fatar ASSN. Nast of the of the ANY, USAN) at Extended at in the fatar ASSN. Nast of the reactions in attitudes immunised with the vacatine were weak (30.05) or alld (32.33). After the second and third innoculation, the personal state of the second and the second	
		sentage of children with a general reaction, local reactions children who did react showed a weak general reaction, local reactions were more someon than general once. Nost of the children who reacted were more someon than general on the sentence of a feet reaction, After	<u> </u>
	Card i/≹	did so with a weak (%), or the percentage of shildren with a the second and third inoculation the percentage of the vascine varied Local reaction dropped. The reactogenicity of the vascine varied	
, I	associa- ichi	Razanskiy institut opidomiologii i gigiyeny (Institute of Epidomiology	
		and Hygiene, Kasan')	
•	SUPHITED:	June 16, 1959	
		· .	
	Card 2/2		
1			
		A STATE OF THE PARTY OF THE PAR	
	_	and the state of t	
سيسين سيبي		and the second of the second o	

ALATYRTSEVA, I.Ye., KOLPACHIKHIN, F.B.; AMFITEATROVA, N.F.; SHAROVSKAYA, V.N.;
DVORKINA, A.I.; MEL'NIKOVA, V.K.; EERZOH, I.G.

Intranasel revaccination against diphtheria. Report No. 1. Vop.okh.
mat.i det. 7 no.4:29-32 Ap '62.

1. Iz Kananskogo nauchno-issledovatel'skogo instituta epidemiologii,
mikrobiologii i gigiyeny.
(DIFHTHERIA--PREVENTIVE INOCULATION)



AMTITEATROVA, T. A.

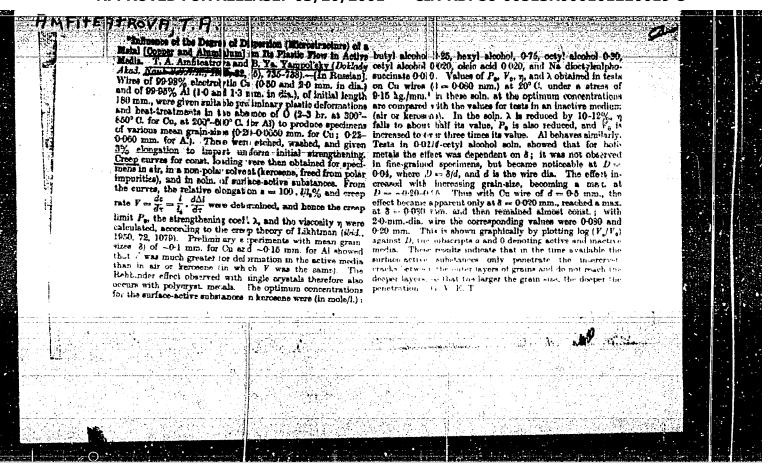
"Effect of Scattering of Metal on Ite Deformation Behavior in Active and Inactive Mediumi." Sub 15 Jun 51, Moscow Order of Lenin State U imeni M. V. Lomonomov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101220019-5

		为此代表的	184 17	Commercia Real IVI Broad
AMFITEATROVA, T.	A.	en er en	a l	
		Compared kinetics of by stretching copper in the surface of the control of the co	Modification of Metals Subjected Surface -Active Contoid Chemy Mosey Secondary Seconda	
		Existry - Surface- in Strate of st Basersion (as dispersion (as dispersion (as	U4 55.410	
		g copper wire in surface- ig copper wire in surface- ig coleic acid or cetyl alc coleic acid or cetyl alc compounds (Contd) Rate of stretching and i	compounds the Crystalline Structure of the Crystalline Structure of to Deformation in Solutions to Deformation in Rozhanskiy, impounds, "V. N. Robinder, Labva, Acad. P. A. Rebinder, Labva, Acad. P. A. Rebinder, Labva, State Uniment M. V. Lomscow State Uniment M. V. Lowscow State Un	
		deformation obtained surface-active media surface-active media retyl alc in nonpolar 184T (Contd) 11 Feb 51 11 Feb 51 12 (Contd) 13 Feb 51 14 (Contd) 15 (Contd) 16 (Contd) 17 Feb 51 18 (Contd) 18 (Contd) 19 (Contd) 10 (Contd) 11 Feb 51 12 (Contd) 13 (Contd) 14 Feb 51 15 (Contd) 16 (Contd) 17 Feb 51 18 (Contd) 18 (Contd) 19 (Contd) 10 (Contd) 11 Feb 51 12 (Contd) 13 (Contd) 14 Feb 51 15 (Contd) 16 (Contd) 17 Feb 51 18 (Contd) 18 (Contd) 18 (Contd) 19 (Contd) 10 (Contd) 11 Feb 51 12 (Contd) 13 (Contd) 14 (Contd) 15 (Contd) 16 (Contd) 17 (Contd) 18 (Contd) 18 (Contd) 18 (Contd) 19 (Contd) 10 (Contd) 11 Feb 51	Structure of solutions in Solut	
	784TT	on obtained active media in nonpolar 18477 11 Feb 51 11 Feb 51 (nonpolar (nonpolar tensification diagrams) are	Feb 51 Feb 51 Lons of Lab. Lonono- Lonono-	
0				



Block of purface-active substances on the placetic flow of perspayabiline models. T. A Amidacturora and H. Va. Vampord'skil (M. V. Lorence, M. 1862). [M. V. Lorence, M. 1862]. [M. 1862]. [M

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101220019-5

AMFITEATROV, T.A.

PERIODICAL ABSTRACTS

Sub.: USSR/Engineering

AID 4193 - P

FRIDLYAND, L. A., T. A. AMFITEATROV and V. A. PETRUNICHEV
ZAKONOMERNOSTI FROTSESSA SVARKI PRI PLASTICHESKOM DEFORMIROVANII (Regularities of the Welding Process in Plastic Deformations). Avtomaticheskaya svarka, no. 1, Ja/F 1956: 38-46.

The authors present results of research in plastic deformations of welded surfaces and the characteristics of junctions as dependent on temperature of metals and methods of deformation. Spot welding and butt welding were used to ascertain regularities in the welding process. The mechanical characteristics of junctions depending on deformations and temperatures were derived from the butt welding of three different non-ferrous alloys. Recrystallization as a means of increased plasticity of junction was observed in welded junctions. The interdependability of temperature, plasticity and strength were observed under varying circumstances. Three tables, 7 graphs and 2 drawings. Two Russian references, 1953-54, and 1 British 1946.

Frot Natallaryy, AS USSR

。 1945年,1955年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1 135-4-1/15 Weldability of Titanium (Issledovaniye svarivayemosti titana). TITLE: gation processes is described in detail. The conclusions reached are the following: 1) The most difficult problem in welding titanium is the deterioration of mechanical properties in the metal at the zone 2) The changing of ob, ds, and W in weld joints according to the temperature is of the same nature as in the base metal. 3) Intensive grain growth in the weld metal and in the adjacent parent metal is observed during welding. 4) The formability of weld joints in # 2 of titanium grades "MMN-A" and "BT-IA" was very high and satisfied the produc-5) The structure and the mechanical properties of low-temperature d-phase base metal are changing abruptly in the heatingpart as well as in the cooling-part of the heat cycle; in the temperature interval of β -phase, δ_b and ψ are changing only insignificantly. After the thermal cycle of heating and cooling, titanium of all grades possesses lower mechanical properties. 6) For comparing the gas contents of the base metal, a special test is recommended, based on heating thin samples to $1300-1500^{\circ}$ at Card 2/3

135-4-1/15

TITLE:

Weldability of Titanium (Issledovaniye svarivayemosti titana).

different speeds. The criterion for evaluation in this test is the critical heating speed at which formation of bulges and pores is observed in the metal.

7) The choice of welding technology is to be based on keeping the metal a short time in the \$\beta\$-phase temperature of intensive grain growth, and on slowing down the cooling in the interval of $\beta \rightarrow \infty$ conversion.

The article contains 5 tables, 5 diagrams, and 15 microphotographs.

ASSOCIATION: Institut metallurgii imeni A.A. Baykova AN SSSR (Institute for Metallurgy imeni A.A. Baykov, Academy of Sciences,

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 3/3

Investigation of the deformation of metals at low stress rates.

I. On certain relations governing creep of copper and aluminium (Cont.)

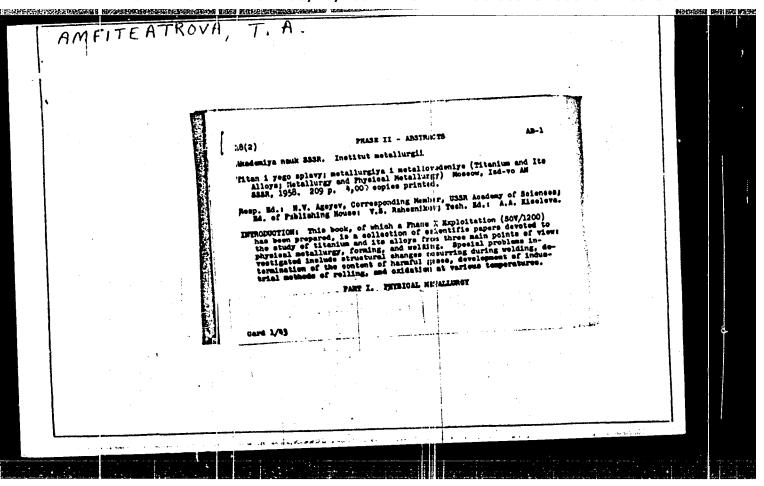
en mendelen transporterlikansker i in eta bena mendelengariakan direktarakan alamakan direktarakan benakan benak

(the creep limit, the toughness and the coefficient of hardening) were determined for various conditions of deformation and preliminary work hardening of the specimens. It is shown that the mechanical properties of polycrystalline copper and aluminium depend on the grain-size of the metal and, with increasing dispersion, the creep limit, the toughness and the coefficient of hardening and also the elastic part of the deformation will increase. The influence of the temperature on the kinetics of the plastic deformation of the metal was also studied; with increasing temperature an intensive process of relaxation takes place in the deformed specimens, as a result of which the toughness, the yield point and the work hardening coefficient decrease. In addition to intragranular slip flow in the inter-crystalline layer takes place during the process of creep of the metal. The relative importance of the viscous flow increases with increasing temperature. 10 references, 8 of which are Russian.

Moscow State University imeni M.V. Lomonosov.

Recd. Feb. 15, 1956.

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101220019-5



Titanium and Its Alloys (Cont.)

AB-1

PART III. WELDING OF THTANIUM

Shorshorov, M.Kh., T.A. Amfiteatrova, and G.V. Nazarov (Institute of Metallurgy, USSR Academy of Sciences) Weldability of IMP-1
Titan:lum

IMP-1 titanium plates (100 x 40 x 2 mm,) were butt-welded in a protective atmosphere (argon and helium), the added metal having the same chemical composition as the parent metal (typical analysis: 0.05 percent C, 0.3 percent Fe, 0.05 percent Si, 0,21 percent Ni, 0.08 percent N₂, 0.03 percent Cr, 0.3-0.6 per-

cal properties of the weld metal; grain growth and changes in structure and mechanical properties of the heat-affected zone under various thermal conditions; and swelling of titanium on being heated. In the latter connection a test was developed for the comparative determination of the degree of saturation of the metal with hydrogen. Conclusions. (1) The main difficulties in developing the technological processes of welding titanium are connected with the deterioration of the properties of the Card 38/43

Titanium and Its Alloys (Cont.)

AB-1

grain growth is intensive and to decreasing the cooling rate in the $\beta \rightarrow \alpha$ transformation temperature range. There are 12 figures, 2 tables, and 2 references (both Soviet).

Poplavko, M.V., N.N. Manuylov, and L.A. Gruzdeva (Ministry of the Aircraft Industry of the USSR) Some Problems in the Welding and Soldering of Commercial Titanium 194

VT-ID commercial titanium, which has a one-phase (alpha) structure, was investigated for weldability. Tests were performed on sheet metal rolled from ingots that were produced in an arc furnace with a nonmelting tungsten electrode. Conclusions. (1) VT-ID titanium sheet metal, when its properties are stable and its plasticity sufficiently high, exhibits good weldability characteristics in the following types of welding: argon-shielded arc welding (manual and automatic), spot welding, seam welding, and butt welding. (2) In order to produce welded joints with good properties, it is necessary to remove, before welding, any scale present on the surface as well as the surface layer of metal itself, if it is contaminated with gases (oxygen, hydrogen, nitrogen). These layers can be successfully removed by pickling in an acid medium. Scale removal can be facilitated Card 40/43

Yampol'skiy, B. Ya. and Investigation of Deformation of Metals under the Influence of

Low Stresses (Issledovaniye deformatsiy metallov pri malykh napryazhen 1 yakh) II. Influence of an Adsorption-Active Medium on the Creep of Copper and Aluminium (II. Vliyaniye adsorbtsionno-aktivnoy sredy na polzuchest' medi i alyuminiya)

PERIODICAL: Fizika metallov i metallevedeniye, Vol 7, Nr 5, pp 782-789 (USSR)

AUTHORS: Amfiteatrova, T. A.

TITLE:

ABSTRACT: The influence of surface-active media on the deformation of metals has been studied by observing the kinetics of plastic deformation of copper and aluminium wire in solutions of various surface-active substances in a non-polar carbonaceous medium. Specimens made from copper wire of 0.50 and 2.0 mm diameter, and aluminium wire of 1.0 and 1.3 mm diameter, we heat treated by the method described by Yampol'skiy et al.: (Ref.1) in order to obtain a definite dispersion of the microstructure with an average grain size Before plotting flow curves all specimens were elongated by 3% in order to ensure uniform hardening. The aluminium specimens Card 1/6 were tested with the standard (atmospheric) oxide film on

SOV/126----7-5-23/25

Investigation of Deformation of Metals under the Influence of Low Stresses II. Influence of an Adsorption-Active Medium on the Creep of Copper and Aluminium

MACHINESTER CHALL PROPERTY AND THE PROPERTY HAVE THE PROPERTY OF THE PROPERTY

the metal surface, having a thickness of the order of several tens of A. The copper specimens were etched The copper specimens were etched with ammonium persulphate in order to give them a polished surface. The medium . non-polar kerosene - was thoroughly cleaned, the extent of cleaning being controlled by surface tension measurements ($\sigma \sim 50 \text{ erg/cm}^2$). Oleic acid, butyl, hexyl, octyl and cetyl alcohols, as well as the preparation The experiments OT, were used as surface-active substances. were carried out in solutions of surface-active substances of various concentrations, and, for comparison, in a nonpolar solvent under the same conditions. The flow diagrams for specimens under conditions of uniaxial straining were plotted at various stresses, which, however, were constant for a given experiment, close to the UTS of the deformed metal. The method for taking measurements and the instrumentation are accurately described by Yampol'skiy et alii (Ref.1). The specimen, held in the grips of a tensile machine, was placed in a glass tube filled with a solution of the surfaceactive substance, or the non-polar medium, in such a way that the entire working portion of the specimen was immersed in the

Card 2/6

SOV/126---7-5-23/25
Investigation of Deformation of Metals under the influence of Low Stresses II. Influence of an Adsorption-Active Medium on the Creep of Copper and Aluminium

liquid. The adsorption effect facilitating deformation of the metals investigated was estimated from the increase in the rate of flow of the specimens on straining in the active, as compared with a non-active, medium. The rate of flow was determined at equal degrees of elongation of the specimens, as the strength properties of the metal depend very largely on the degree of deformation. Measurements carried out in solutions of alcohols in non-polar kerosene at concentrations of from 0.050 mol/1. and above have shown that the rate of flow of both copper and aluminium specimens depends on the concentration of the surface-active medium in the solution. In Fig.1 typical curves of the kinetics of flow (creep) of a copper wire of 0.5 mm diameter in non-polar kerosene (lower curve) and in a solution of hexyl alcohol (0.75 mol/1. - upper curve) are shown. It was not possible to detect any difference in the rate of deformation of the specimens, under identical stresses, in air in the non-polar liquid. If the dependence of the initial flow rate of the metal in solutions of surface-active media is represented as

Card. 3/6

SOV/126.. - -7-5-23/25

Investigation of Deformation of Metals under the Influence of Low Stresses II. Influence of an Adsorption-Active Medium on the Creep of Copper and Aluminium

a function of the logarithm of the concentration of the active medium in the solution, a clear relationship becomes evident exhibiting a sharp maximum at a definite concentration. For alcohols this relationship is shown in Fig. 2. 3 the change in flow rates of copper specimens during straining in a non-polar medium and in a solution of ectyl alcohol (0.3 mol/1.) is shown. Fig. 4 shows the dependence of the relative flow rate of copper specimens on the extent of deformation Fig. 5 shows the dependence of the ε, adsorption effect, facilitating the deformation of metal. on the acting stress (copper in a solution of 0.02 mol/1. cetyl algenel). In Fig.6 the dependence of the adsorption effect (relative increase in the flow rate of copper specimens) on the ratio of average grain size to specimen disneter is shown. The authors arrive at the following conclusions: 1. The adsorption effect facilitating deformation of polycrystalline copper and aluminium wire in uniaxial straining at low stresses in solutions of surface-active substances depends largely on the concentration of the surface-active substances.

Card 4/6

SOV/126-,--7-5-23/25

Investigation of Deformation of Metals under the Influence of Low Stresses II. Influence of an Adsorption-Active Medium on the Creep of Copper and Aluminium

ENHANCEMENT OF THE PROPERTY OF

2. The optimum concentration of the surface-active substance, corresponding to the maximum adsorption effect, decreases with increase in its molecular weight. On deforming specimens in an active medium (under optimum conditions) the limiting creep decreases by 14 to 16%, the coefficient of hardening decreases by 10 to 12% and the ductility decreases by approximately twice.

3. The magnitude of the adserption effect depends on the degree of deformation of the metal. The greatest value of the effect is observed at a relative deformation of the order of 0.5% for copper and of 1% for aluminium specimens.

4. The magnitude of the effect also depends on the acting stress and disperseness (microstructure) of the metal. There are 6 figures, 1 table and 5 Soviet references.

Card 5/6

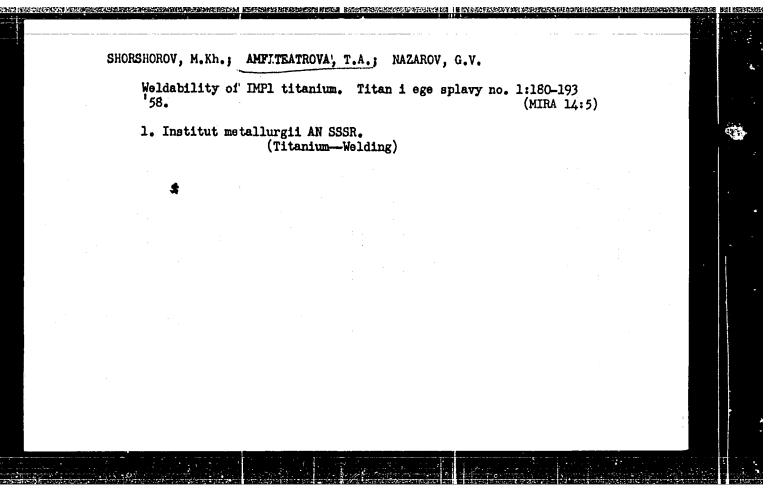
SOV/126--- -7-5-23/25

Investigation of Deformation of Metals under the Influence of Low Stresses II. Influence of an Adsorption-Active Medium on the Creep of Copper and Aluminium

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

SUBMITTED: January 29, 1958

Card 6/6



na depresa de la composita de la compositación de la compositación de la compositación de la compositación de l

SCY/20-122-4-29/57
AUTHORS: Ostrovskiy, V. S., Amfiteatrova, T. A., Yampol'skiy B. Ya.

TITLE: On the Influence of Oxide Films and of an Adsorption-Active Medium on the Creep of a Copper Wire (O vliyanii okisnykh plenok i adsorbtsionno-aktivnoy sredy na polzuchest' mednoy provoloki)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 4, pp 643-645 (USSR)

ABSTRACT: The explanation of the influence of thin oxide films on the mechanical properties of polycrystals is very important. The authors found out that the deformation of a polycrystalline

authors found out that the deformation of a polycrystalline copper wire is impeded if it is carried out in water. The samples - wires of electrolytic copper of 0,5 mm diameter - were tempered in order to get the grain dimensions (~0,1 mm) necessary for the optimum observation of the adsorption effect. The wires were stretched by a constant stress(below yield point) by means of a special apparatus. By a deformation in distilled water, the initial creep velocity and also the

deformation accumulated up to a given instant of time decard 1/3 creases sharply with respect to the variations of these

1977-1973 (1979) (1979) [1970] [1970

SOV/20-122-4-29/57

On the Influence of Oxide Films and of an Adsorption-Active Medium on the Creep of a Copper Wire

quantities as a result of experiments carried out in air. The curve for the creep in water is noticeably lower than the curve for the creep in air. If the samples are immersed in water, they are covered by a reddish oxide film the thickness of which amounts to some hundreds of Angstrom. The formation of this oxide film is caused, apparently, by the dissolution of air oxygen in water. The above-discussed strengthening of the wires takes place only in the presence of oxide films. Surface-active substances (for instance, butyl alcohol) adsorbed on the metal from an aqueous medium, increase the creep velocity with respect to the creep in water and in air. According to the results of this paper, thin oxide films may exercise considerable influence on the mechanical properties of monocrystals and also of polycrystalline specimens. The diminishing of the creep velocity by the influence of thin oxide films on the surface of metals may be explained on the basis of dislocation hypotheses. The authors thank Ye. D. Shchukin for his useful advice. There are 1 figure, 1 table, and 11 references, 7 of which are Soviet.

Card 2/3

SOV/20-122-4-29/57

On the Influence of Oxide Films and of an Adsorption-Active Medium on the

Creep of a Copper Wire

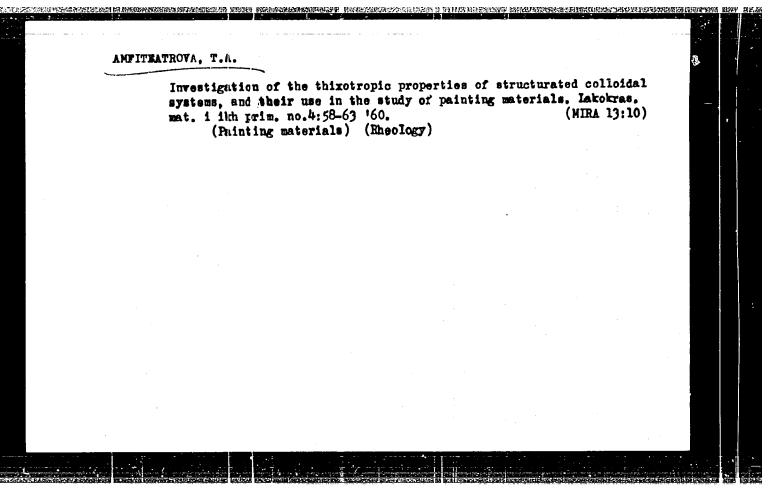
ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

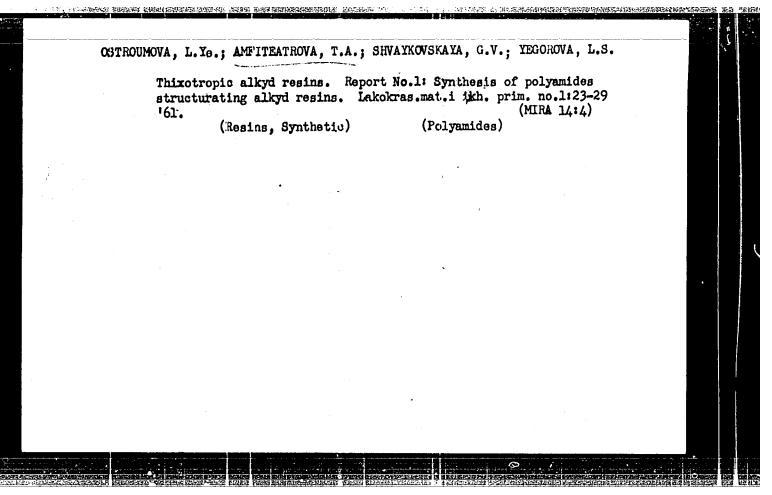
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: May 30, 1958, by P. A. Rebinder, Academician

SUBMITTED: May 9, 1958

Card 3/3





40968 s/081/62/000/016/035/043 B171/B186 Trapeznikov, A. A., Shalopalkina, T. G., Amfiteatrova, T. A. 15.81111 Rheological and thixotropical properties of dispersions of AUTHORS: alkyd resins modified by polyamid resins Referativnyy zhurnal. Khimiya, no. 16, 1962, 546, abstract TITLE 16P246 (Lakokrasochu. materialy i ikh primeneniye, no. 5, PERIODICAL: 1961, 3 - 10) TEXT: The rheological and thixotropical properties of alkyd polyamid resin (APR) (alkyd resin modified by polyamid resin) dispersions in white spirit were investigated over large ranges of deformation velocities $(5.10^{-3} - 5.10^2 \text{ sec}^{-1})$, of resin concentrations (30 - 90%), and of temperature, using a complex elasto-viscosimeter, which made it possible to reproduce the actual conditions under which APR-based paints are used. has been established that the systems under investigation show clearly defined strength and thixotropies of viscosity. In particular, it has been shown that the viscous structure of the paint can be re-established Card 1/2

Rheological and thixotropical ...

S/081/62/000/016/035/043 B171/B186

by a low gradient flow after having been destroyed at a high velocity gradient. The characteristics of APR dispersions at early stages of their structure being re-established, are due to the viscous thixotropy, whereas after a long period of rest they are conditioned by strength and thixotropies of viscosity. It has been shown that the stability of structure and the viscosity quickly increase (following the exponential law) with the increase of the resin comcentration, so that the running-off of the paint during its application is substantially changed. Data for deformation and rupture lead to the conclusion that the particles of APR are relatively compact and that the system has the character of a concentrated suspension. The effect of rheological and thixotropical properties of APR on the process of film formation and on the stability of pigment-containing systems has been investigated. [Abstracter's note: Complete translation.]

Card 2/2

33178 5/180/61/000/006/008/020 E071/E335

The breaking-up of grains

Card 2/3

experiments were carried out by decanting the liquid metal remaining after different lengths of time. Metallographic examination of longitudinal sections showed that solidification took place from the periphery inwards. The structure immediately adjacent to the walls was not destroyed by the ultrasonic vibrations and was still columnar. The remainder of the casting was fine-grained. It is proposed that the fine grain size is due to nucleation by solid fragments broken from the columnar zone under the action of ultrasonic vibrations. Further experiments showed that the columnar peripheral zone was not present when metal was poured into a mould preliminarily heated to 700 °C. In this case solidification begins only from the contact with the ultrasonic instrument. The solid metal so formed is broken up by the vibrations and causes grain refinement of the casting. The next experiments were carried out by heating the aluminium to 740 - 750 °C and allowing solidification in the aluminium to 740 in air (cooling rate about 0.5 °C/sec). From the moment when solidification temperature was reached, vibrations were introduced into the melt for different lengths of time

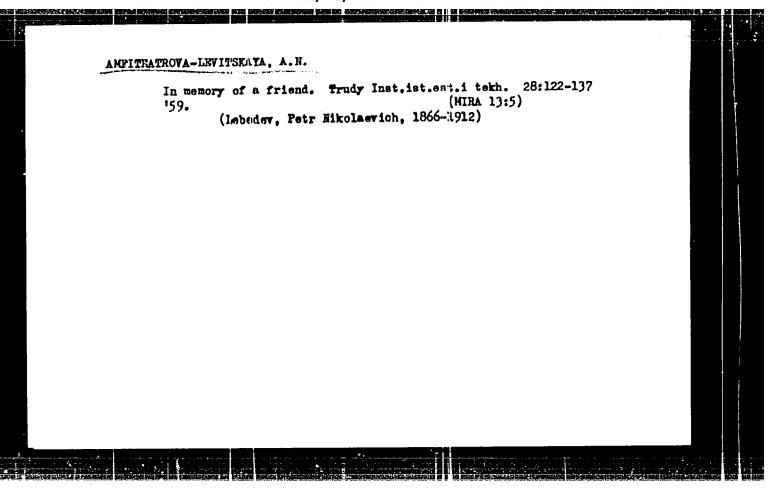
s/276/63/000/002/031/052 A052/A126 Amfiteatiova. T.A., Yermolayeva, T.A., Abramson, D.L., AUTHORS: Yakubovich, 8.V. Effect of titanium dioxide modification on rheological prop-TITLE: erties of "tixotropic" (tiksotropaykh) enamels Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no.2, PERIODICAL: 1963, 110, abstract 2B602 (Lakokrasochn. materialy i ikh primeneniye, no. 4, 1962, 30-32) The results of investigations of rheological properties of "tixotropic" enamels produced by using modified titanium dioxide samples are reported. It is shown that, if titanium dioxide is treated with inorganic aluminum, phosphorus and silicon compounds, the strength of the enamel structure increases as compared with the enamel containing untreated pigments; surface active substances (alkamone OC-2(OS-2)) at 0.1, 0.5 and 1% by weight destroy the structure of enamel and reduce considerably its strength; if titanium dioxide is treated successively with aluminum phosphate and alkamone OS-4, the strength of the structure of enamel decreases Card 1/2

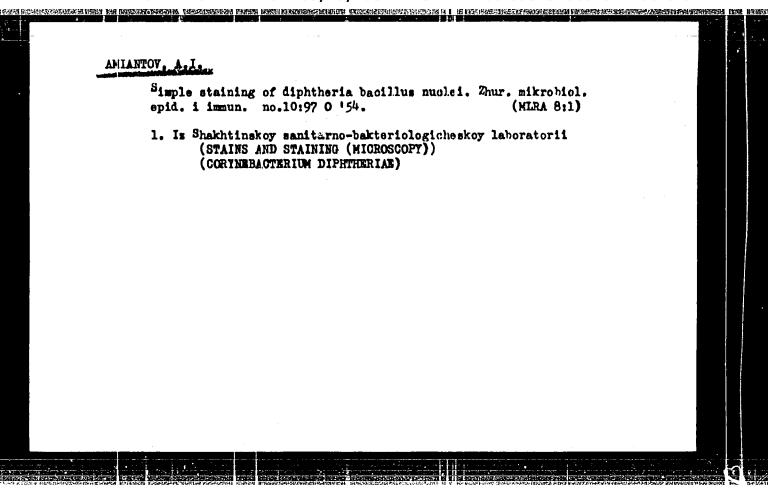
	-		titani				100		er (1914) Krama e ser Krama e Krama e Krama e	e even in		-	63/00 126	,						
	minum "tixo	hydropio	e way c and oxide c" ens he pro	and s	ili:	ic	acid	can	be re	red w	tn a	ıunı	num j	phosi	hat), e	ılu-	, ,		
	(Abst	rac te:	r's no	te: C	omp]	e te	trar	ıslat	ion.)	``. }				. ,						
		• .																	÷	
								1									y		,• -	1
		· .							10										÷	
							7	i sagai Sagai					. *			1				
:							4.5%					4			•:					
							. 1										· · ·			E P
																	¥1		. Y	
																		•	4.	. 5
. :	Card 2	2/2		•				i			. : :									 :
		<i>'</i> -	4.0					1.7.	1		• :							;		

և 6և և 6-	AC BUT/-\/D			
	مراجر والمستوال والراكرة المراجر والمستوالين	P(b)/EWA(d)/EWP(j)/T/EWP(t)/IS	((c) RM/JD/WB	
ACCESSION	NR: AP502022	U1 44,55 4,5554	0069/65/027/004/0489/0493 .182.025	
AUTHORS :	Amfiteatrova,	A.; Shalopalkina, T. G.; Tr	peznikov, A. A. 1853 361	
TITLE: Ef	fect of aurface		pic properties of alkyd-	75. 35. 17. 35. 35.
	resins 15、4655	ml, v. 27, no. 4, 1965, 489-4		
TOPIC TAGS	surface act	ve agent, surface active subs		
polyamide :	esin, polymer			
ABSTRACT:	The mechanism	of the thixotropic structure investigated. The effect of	brmation induced by	
I TOTTOMTHE S	mrace-ective	BUINTS ON the thiratronic was	hinting of a Blamanus at the	
- CAUGOCY, LOIL	TID . MY NOT. DYA	as studied: butyl alcohol, o ethylated cetyl alcohol with	int Awardhard marine and	
determining	thixotropic	colorties was that of A. A. 'S	ligental method used in	
ongrobalikii	m (vottojdu B	h. 19, 232, 1957). It was for anie the strength of the strip	that amount additions at	
Card 1/2				
	The state of the s			

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101220019-5

I. 64216-65				
ACCESSION NR: AP502022			3	
groups B.g. alkamon-C	Thir	ice active-agents with a la muse a breakdown of the he effect was also observed o	117 md atmirations at magazine	
	到底每十	sekoy khimii, AN SSSR (Ins	itute for Physical Chem-	
SUBMITTED: 22Jul63		ENCL: CO	SUB COIR GC	
NO REF SDVI 005		OTHER 1 002		
Card \$22				





AMÍANTOO, A. W.

USSR/Radiophysics - Statistical Phenomena in Radiophysics, I-3

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35257

Author: Amiantov, A. N., Tikhonov, V. I.

Institution: None

Title: Effect of Normal Fluctuations on Typical Nonlinear Elements

Original

Izv. AN SSSF, Otd. tekhn. n., 1956, No 4, 33-41 Periolical:

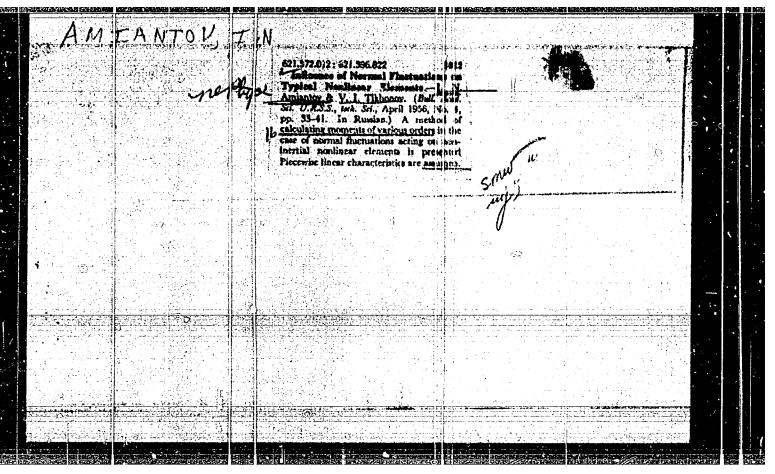
A method is given for calculating the mements of various orders Abstract: under the influence of normal fluctuations on inertialess nonlinear

elements with piecewise-linear characteristics. With this, the normal function of the probability density is represented in the form of an infinite series in powers of the correlation coefficient of the acting random disturbance ρ (Kramer, G., Mathematical Methods of Statistics, GIIL, 1948, 321). In particular, for the correlation function of the input signal of a limiter, the following expression

was obtained:

Card 1/2

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101220019-5



AMIANTOY, I.N

Category : USSR / Radio Physics. Statistical Phonomena in Radio Physics.

I-3

E TROPE 可持续 在经济的经验和各种产品的 数据的ALL HARRING COMPENSATION

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 7238

: Tikhonov, V.I., Amiantov, I.W. Author

: Response of a Self-Excited Generator to Slow Fluctuations. Title

Orig Pub : Radiotekhn. i elektronika, 1956, 1, No 4, 423-432.

Abstract : The small-parameter method is used to analyze the amplitude and phase fluctuations of an auto-generator, caused by the action of

noise with narrow spectrum on the generator. Slow fluctuations in the anode supply of the generator are considered. Relations are obtained for the statistical characteristics of the amplitude and instantaneous frequency, with which the average values and the dispersion of the phase incidence during the time are calculated. In conclusion, by way of an example, an estimate is made of the error introduced by instability of the anode voltage of the generator in the measurement of distance by interference methods.

: 1/1 Card

AMIRNTOV, IVI.

THE CONTROL OF THE PROPERTY OF

PA - 2295

AUTHOR: TITLE:

The Influence Exercised by Fluctuations on a Phase Detector. (Vozdeystviye flyuktuatsiy na famovyy detektor. Russian).

PERIODICAL:

Paliotekhnika, 1957, Vol 12, Nr 2, pp 39-50 (U.S.S.R.) Reviewed: 4 / 1957

ABSTRACT:

The combined influence exercised by the usuful signal and the disturbance on a phase detector is analyzed. The task is solved by the so-called direct method which is applied to a scheme variety of a phase detector such as is used in radio beam stations for the automatic accompaniment according to angular coordinates. The statistical characteristics of the output voltage are determined. The most important are the average value of voltage, the dispersion, and the correlation coefficient. The two-dimensional density of probability, which is given in form of a series, the two-dimensional density of the probability of the harmonic signals, the two-dimensional moments of the ourrents, and the formula for the two-dimensional moment of fluctuation voltage in the load on the phase detector in the case of the action of normal fluctuations alone are derived. Next, the average value of the voltage is computed; when computing its integral two limiting cases must be distinguished according to the value of the fraction (amplitude/dispersion). Next, the function of the correlation for voltage is set up and the errors of the phase detector due to fluctuations are investigated. On the basis of an example the systematicaland chance-errors are pointed out. Chance-errors do not characterize

Card 1/2

SOV-109-3-4-27/28

AUTHORS: Tikhonov, V., I. and Amiantov, I. N.

TON SEAT DIRECTED STORY SEAT TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL

TITLE: Discussion: Reply to V. S. Troitskiy (Diskussii: Otvet V. S. Troitskomu)

PERIODICAL: Radio tekhnika i Elektronika, 1958, Vol 3, Nr 4, pp 580-581 (USSR)

ABSTRACT: The authors agree with V. S. Troitskiy that their Eq.(3) should be regarded as being approximate. On the other hand they disagree with his second conclusion. However, the authors express their gratitude to V. S. Troitskiy for his interest in their work. There are 6 references, 2 of which are Soviet and 4 English.

SUBMITTED: October 19, 1957

1. Electron tube oscillators---Mathematical analysis 2. Electron tube oscillators---Performance 3. Electron tube oscillators---Theory

Card 1/1

AUTHORS: Amiantov, I. N., Tikhonov, V. I. (Moscow) 103-19-4-5/12 TITLE Fluctuations on the Operations of an Auto-Range-Finder (Vliyaniye fluktuatsiy na rabotu avtodal'nomera) PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 4, pp. 325-333 (USSR) The system of an automatic convoy of the target by radar ac-ABSTRACT: cording to the distance here is called a auto-rangefinder. A structure scheme of such a system is given here and a short description of the mode of operation of such an auto-rangefinder is given. The operation of the simplest model of an auto-rangefinder in the presence of sufficiently small fluctuations and of an immovable target is examined. In the construction of the model the following was assumed: 1) The shape of the pulses, which are reflected by the target, is approximated by a trapezoid, while the selector-impulses are assumed to be rectangular ones with certain height. 2) The differential detector reacts on the difference of the impulse-areas of the time detector S_2 and S_1 . 3) The shift δT_n of the selector impulses with regard to the sounding pulse in the n-th period of Card. 1/4

Influence of Fluctuations on the Operations of an 103-19-4-5/12 Auto-Range-Finder

repetition is proportional to the increase in voltage at the input of the time modulator: $\delta r_n = k_2 \triangle u_D(n)$. T_n denoting the sounding pulse $\Delta u_n^{(n)}$ denotes the voltage increase at the output of the differential detector, k2 denotes a certain proportionality factor. In the investigation of the disturbances it is assumed that at the system input beside the intelligence signal v(t) act also eigenfluctuations from the radio receiver output. These form an arbitrarysteady process $\xi(t)$. It is assumed that the intensity of the fluctuations $\xi(t)$, which is characterized by the dispersion S, is not too high in such a way that the detuning An is low and the possible wrong response of the coincide tube can be neglected. It is shown that in the case of the coincidence tube can be neglected. It is shown that, in the case of tot too high fluctuations the difference $S_n^{(n)} ... S_n^{(n)}$ is an random quantity. The equation (10) is derived for a closed circuit and graphically interpreted. It is shown that the fluctuations cause a change of the inclination at the "reflecting line" and a shift of it along the axis of ordinates. The change of the inclination and the shift are different in case of different.n. The detuning $\triangle T_n$ in the general case is a nonsteady

Card 2/4

Influence of Fluctuations on the Operations of an 103-19-4-5/12
Auto-Range-Finder

random function of the discreet $t_n=nT_0$, whereby the mean value is $\triangle T_n=0$. Such a character of $\triangle T_n$ makes it necessary to determine the stability, the instability, and the error of the tracking circuit of the auto-tracking system separately. It is assumed that the system is stable, if a finite limit of the sequence of $\triangle T_n^2$ exists: $\triangle T_n = \lim_{n \to \infty} \triangle T_n^2$. The system is

unstable if no finite limit exists. As quantitative measurement of the error of the stability of the system the quantity

$$G_{AT} = \sqrt{\lim_{n\to\infty} \Delta T_n^2} \text{ is assumed.}$$

In the next section the statistical characteristics are investigated and the equation (22) is derived for 62 T. The first

term characterizes the influence of the propagation of the disturbation at the top and at the edges of the pulse, while the second term reproduces the vibration of the response-moment. For low $\mathcal C$ an approximated formula (24) is obtained. If a concrete form of the correlation factor $R(\pi)$ is chosen, numerical evaluations according to formulae (23) and (24) can

Card 3/4

Influence of Fluctuations on the Operations of an 103-19-4-5/12 Auto-Range-Finder

be performed. Finally the equation for the limit of stability is solved and the formula (25) derived for 6^2 . In a three-dimensional space with the coordinates k.u₀ and $6^2(25)$ determines a surface. An intersection of this surface with the plane k=constant results in a rarabola, and an intersection with the plane u₀ = constant a hyperbola. Points within this surface belong to the stable domain, points outside of it belong to the unstable domain. There are 6 figures, and 2 references, which are Soviet.

SUBMITTED:

March 29, 1957

AVAILABLE:

Library of Congress

1. Radar range finders-Operation 2. Radar range systems -- Analysis

Card 4/4

AMIANTOV, I. N.: Master Phys-Math Sci (diss) -- "The application of the theory of solutions to problems of detecting signals and isolating signals from noise".

Moscow, 1959. 8 pp (Moscow State U im M. V. Lomonosov, Phys Faculty), 100 copies (KL, No 13, 1959, 39)

AUTHOR: SOV/109- - -4-3-14/38 I.N. Amiaritov TITLE: Inertialess Transformations of the Envelope of Quasi-Harmonic Fluctuations (Bezynertsionnyye preobrazovaniya ogibayushchey kvazigarmonicheskikh fluktuatsiy) PERIODICAL: Radiotekhnika i Elektronika, 1959, Vol 4, Nr 3, pp '+49-456 (USSR) ABSTRACT: It is assumed that a stationary normal random process $\zeta(t)$ is characterised by the parameters expressed by Eq (1), where $F(\omega)$ is the power spectrum of $\zeta(t)$. If the power spectrum is symmetrical with respect to a centre frequency ω_0 , and the bandwidth of the spectrum $\Delta\omega \leqslant \omega_0$, the process can be represented as: $\xi(t) = A(t) \cos [\omega_0 t + \vartheta(t)]$ (2) where A(t) is a slowly changing envelope of the quasi-harmonic noise &(t). The correlation coefficient R of X(t) also contains an envelope, as can be seen from Eq (3). The two-dimensional probability density distribution of the quantities $A_1 = A(t)$ and $A_2 = A(t+\tau)$ Card 1/4 is in the form of Eq (4), where I_0 is the Bessel function of the zero order. It is assumed that the

SOV/109---4-3-14/38

THE DATE OF THE PROPERTY WAS THE THE THE PROPERTY OF THE PROPE

Inertialess Transformations of the Envelope of Quasi-Harmonic Fluctuations

envelope undergoes the following inertialess transformations:

 $\eta_1 = G_1(A_1); \quad \eta_2 = G_2(A_2).$ (5)

In various problems it is necessary to evaluate the 2nd moment of these transformations; this is defined by:

 $\langle \eta_1 \eta_2 \rangle = \int_{0}^{\infty} \int_{0}^{\infty} w_2(\Lambda_1 \Lambda_2) G_1(\Lambda_1) G_2(\Lambda_2) d\Lambda_1 d\Lambda_2.$ (6)

The averaging in Eq (6) can be done if $w_2(A_1A_2)$ is expanded into a series in terms of r^2 . Using the definitions introduced on page 450, it is shown that the two-dimensional probability density can be expressed (Ref 2) in the form of Eqs (9) and (10). If $\eta_1 = g_1(R_1)$ and $\eta_2 = g_2(R_2)$, the two-dimensional moment can be expressed by Eq (11) or by Eq (14). Similarly, if $\eta_1 = h_1(X_1)$ and $\eta_2 = h_2(X_2)$, the two-dimensional moment is expressed by Eq (18). When G_1 and G_2 denote power-type transformations, the two-dimensional moment

Card 2/4 power-type transformations, the two-dimensional moment can be evaluated provided the moments of the type

SOV/109---4-3-14/38
Inertialess Transformations of the Envelope of Quasi-Harmonic Fluctuations

AP AQ are known. It is shown that for this case the moment can be expressed as Eq (29). When the transformations are defined by Eq (30), which transforms the peaks of the envelope above a certain level γ into rectangular pulses having an amplitude go, the correlation coefficient of the transformed signal is given by Eq (35). The coefficients B of Eq (35) are defined by Eq (36). The values of the correlation coefficient are plotted in Fig 1. When the transformation defined by Eq (38) is carried out, the correlation coefficient of the output signal is given by Eq (43), where the coefficients C are defined by Eq (44). The values of the correlation Card 3/4 coefficient for this case are plotted in Fig 2. The

SOV/109---1-3-14/38

Inertialess Transformations of the Envelope of Quasi-Harmonic Fluctuations

author expresses his gratitude to V.I. Tikhonov for discussing this work.

Card 4/4 There are 2 figures and 3 references, 2 of which are English and 1 Soviet.

ASSOCIATION: Fizicheskiy Fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova (Physics Department of Moscow State University imeni M.V. Lomonosov)

SUEMITTED: November 11, 1957

A CONTRACTOR OF THE PROPERTY O

83150

S/108/60/015/009/002/008 B002/B067

6.9000; 6.9400

• / • / / · · · ·

Tikhonov, V. I., Amiantov, I. N., Members of the Society (VNOR: E)

TITLE:

AUTHORS:

Probability Densities for the Duration of Pips of

Fluctuations

PERIODICAL:

Radiotekhnika, 1960, Vol. 15, No. 9, pp. 10-20

TEXT: Very complex formulas are obtained by the rigid theoretical solution for the probability densities of the duration of pips of noise fluctuations, thus rendering calculations very extensive. Three methods are available for approximate calculation: 1) Rice's method (Ref. 2); 2) the method of uncorrelated pulses; 3) The method of least squares. The present paper gives the numerical values (Tables 1 and 2) obtained by the various methods and a comparison with experimental data. Oscillograms were taken of the individual random processes, and were also evaluated (Fig. 4). Besides, the results of Ref. 12 are given, which were obtained by another method (Fig. 5). By this method, the pips of fixed duration were transformed into standard pulses, and the number of standard pulses was then chosen for a sufficiently long period of time.

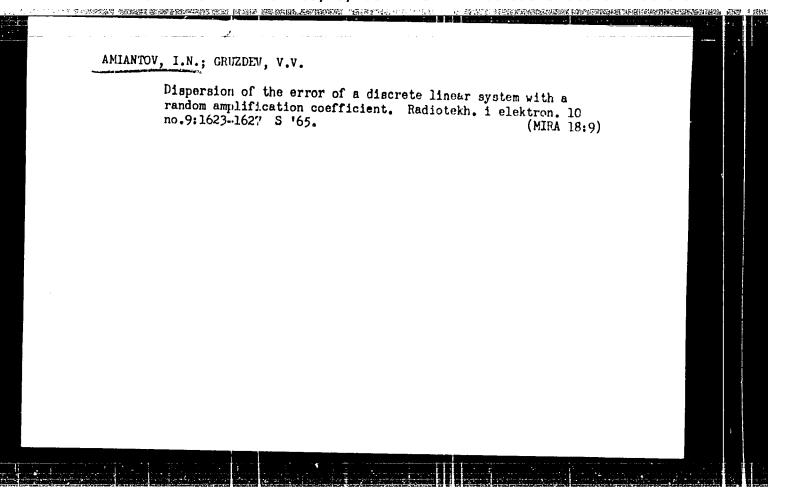
Card 1/2

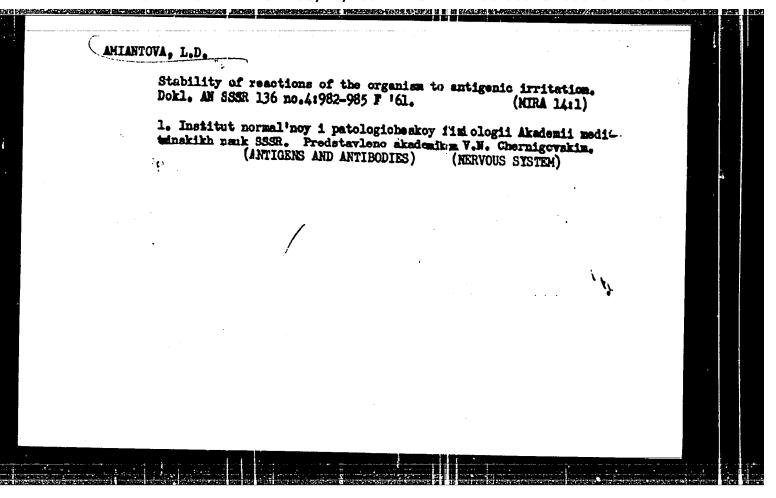
83150

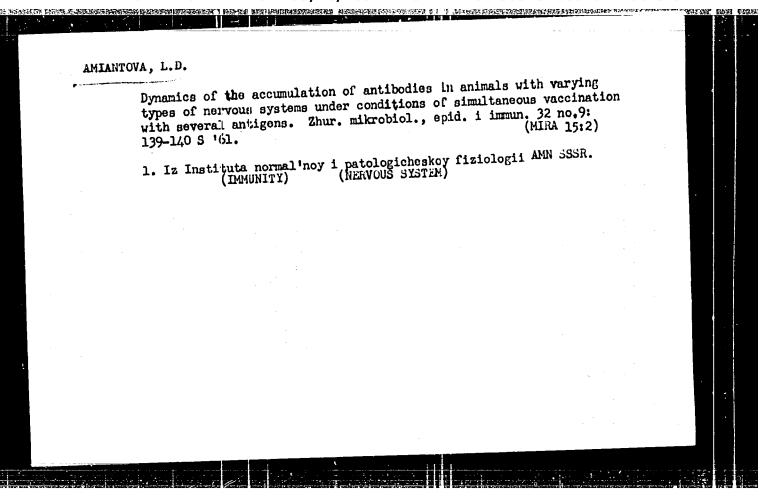
Probability Densities for the Duration S/108/60/015/009/002/008 of Pips of Fluctuations S/002/B067

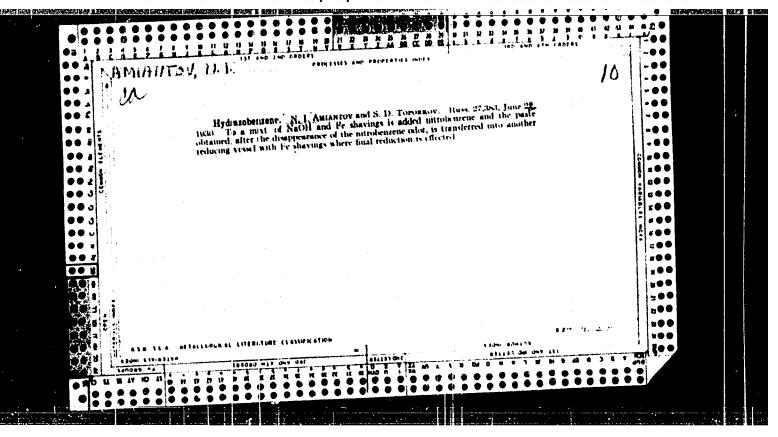
A comparison of the calculated values with the curve obtained (Fig. 7) shows good agreement. There are 7 figures, 2 tables, and 15 references: 11 Soviet, 2 British, and 1 Australian.

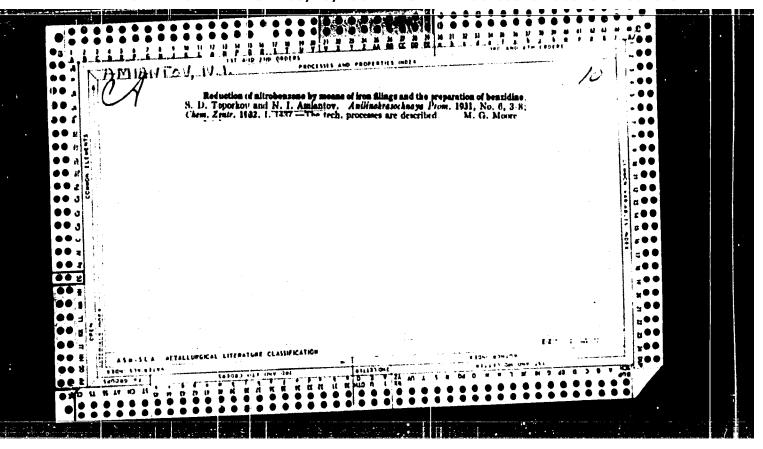
SUBMITTED: July 24, 1959

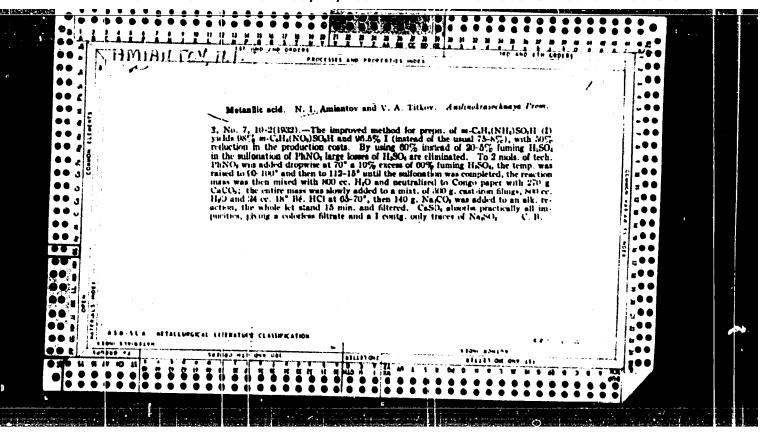


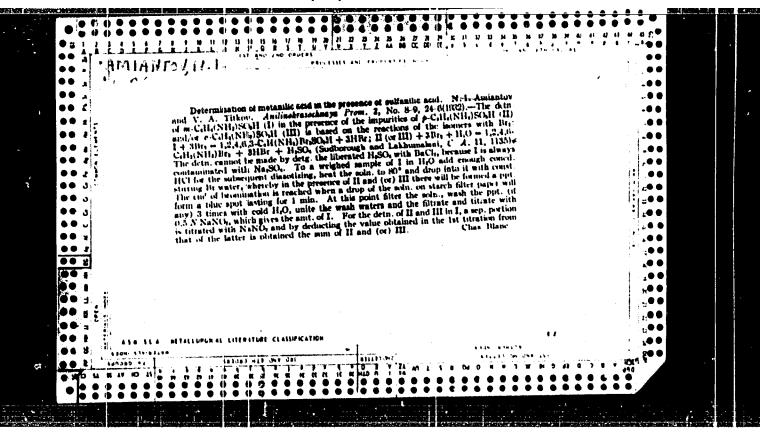


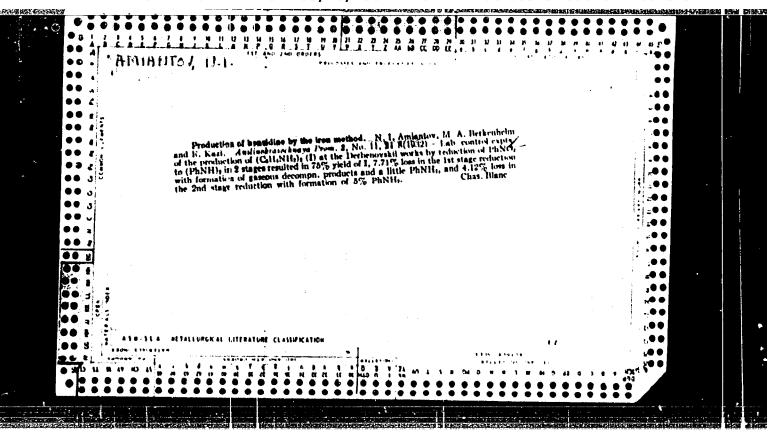


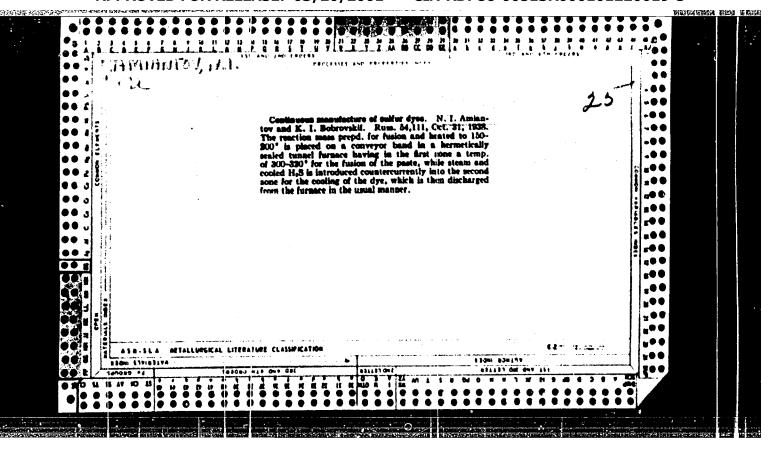


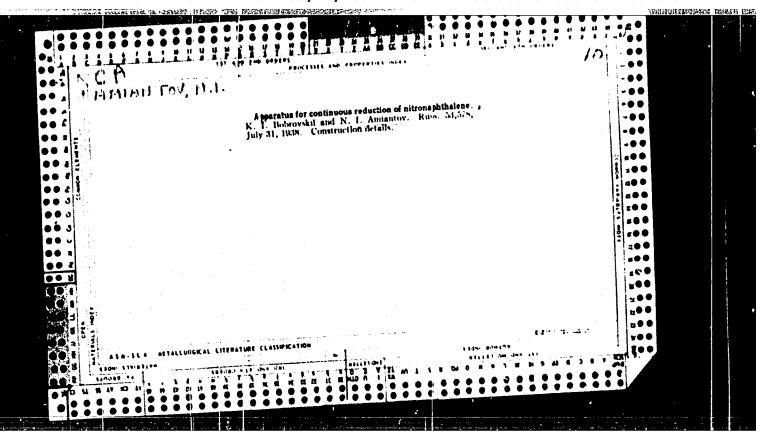


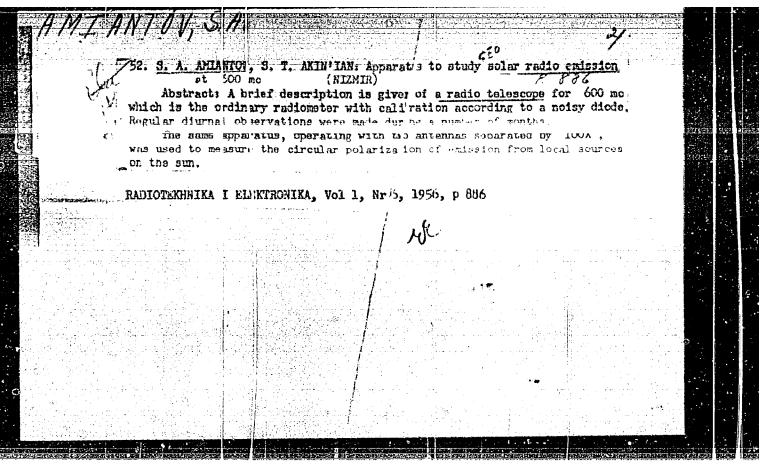


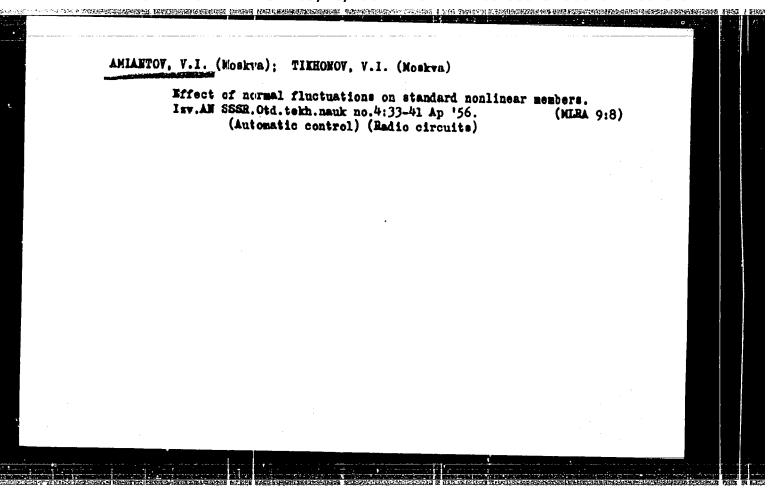


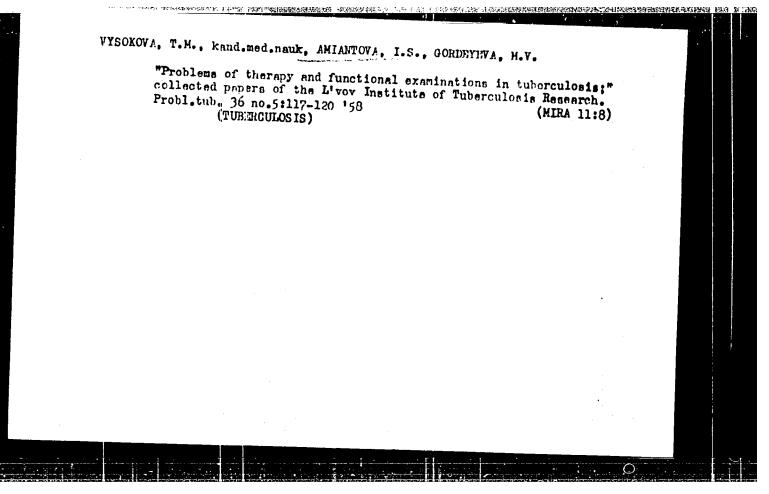












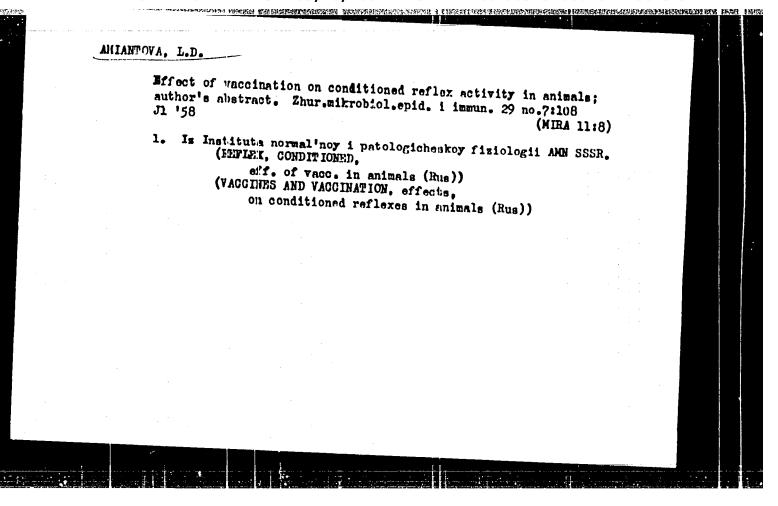
PLETS! MY, D.F., LABINSKAYA, A.S., MOHATENKOV, A.M., KATSITADZE, V.A.,
AMINITOVA, Labe

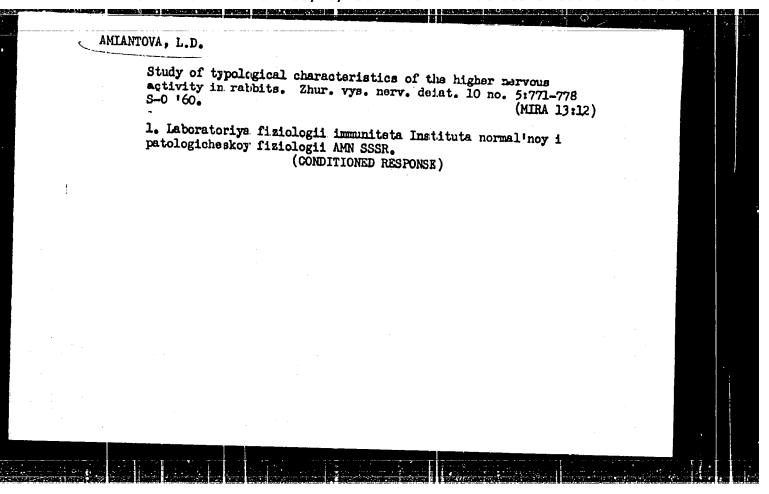
Dynamics of blood antibody concentration immediately following
revaccination. Zhur.mikrobiol. epid. i immun. 29 no.7:103-107
J1 '58

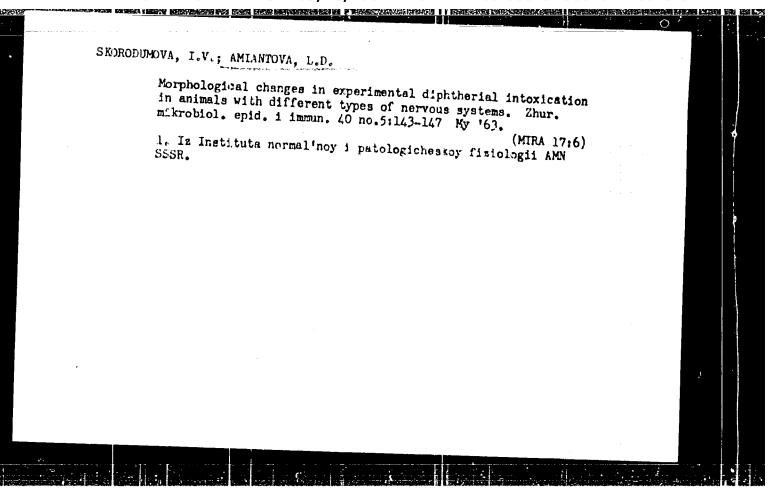
1. Is Instituta normal'noy i patologicheskoy fisiologii AMN \$SSR.

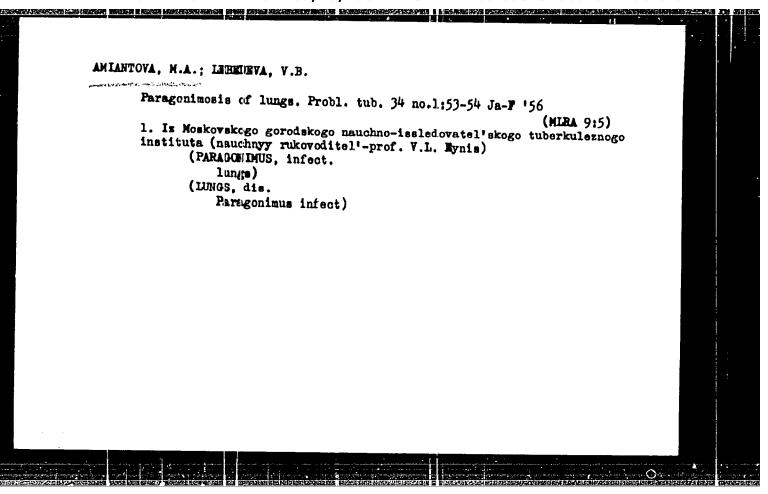
(DIPITHERIA, immunology,
antibody in blood after revaccination in rabbits (Rus))

(TRY/NUS,
same (Rus))









AMIANTOVA, N.A.; APANOVA, A.M.; ARTEM'YEVA, Z.S.

Concentration of streptomycin in the blood in tuberculosis therapy
[with summary in French]. Probletub. 35 no.8:101-105 '57.

1. Iz Moskovskogo gorodskogo mauchno-iseledovstel'skogo tuberkulesnogo institute (nauchnyy rukovodítel' - prof. V.L.Eynis)

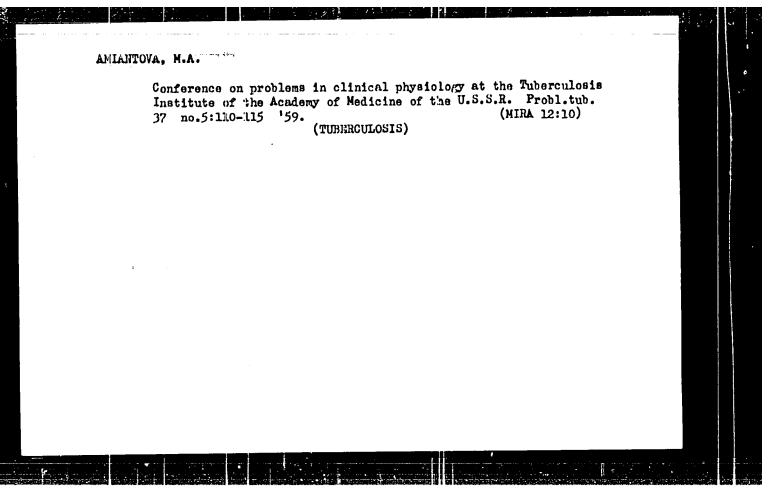
(TUBERCULOSIS, ther.
streptomycin, detorm. of blood concentration (Rus))

GINZBERG, R.Ye.; AMIANTOVA, M.A.

Study of the functional condition of tuberculosis patients by the respiratory peace method under control of a henoxometer. Probl. tub. 36 no.8:51-57 '58. (MIRA 12:7)

1. Iz Moskovskoy gorodskoy tsentral'noy klinicheskoy tuberkuleznoy bol'nitsy (glavnyy vrach - prof. V. L. Zynis)

(THERCULOSIS) (BLOOD--OXYGEN CONTENT)



HINIS, V.L.; GINZBENG, R.Ye.; AMIANTOVA, M.A.

Functional restoration of respiration and blood circulation after surgical treatment of tuberculosis of the lungs. Probl. tub. 39 no.2:22-28 "61. (MIRA 14:3)

1. Iz Instituta tuberkuleza (dir. - chlen-korrespondent AMN SSSR prof. N.A. Shmelev) AMN SSSR i Moskovskov gorodskov tsentral'nov klinicheskov tuberkuleznov bolinitsy (gluvnyy vrach - zasluzhemnyy deyatel' nauki prof. V.L. Eynis).

(LUNGS-SURGERY) (RESPIRATION) (BLOOD-CIRCULATION)

	الأحراب المستحدد المس	
	ANIANTOVA-FILIPPOVA, I.S.	
<u> </u>	Treatment of tuberculous pericarditis. Probl.tub. 36 no.7: 48-52 '58. (MIRA 12:8)	
	1. Iz vnelegochnogo otdeleniya (rukovoditel' Ye.N.Zorin) Moskovskogo instituta tuberkulesa Ministerstva zdravookhraneniya RSFSR (dirV.F.Chernyshev, zam.dir.po neuchnoy chasti - prof. D.D.Aseyev). (FERICARDIUMTUBERCULOSIS)	
	(I Metwerd 10MI construction)	
·		
and making the		Ş

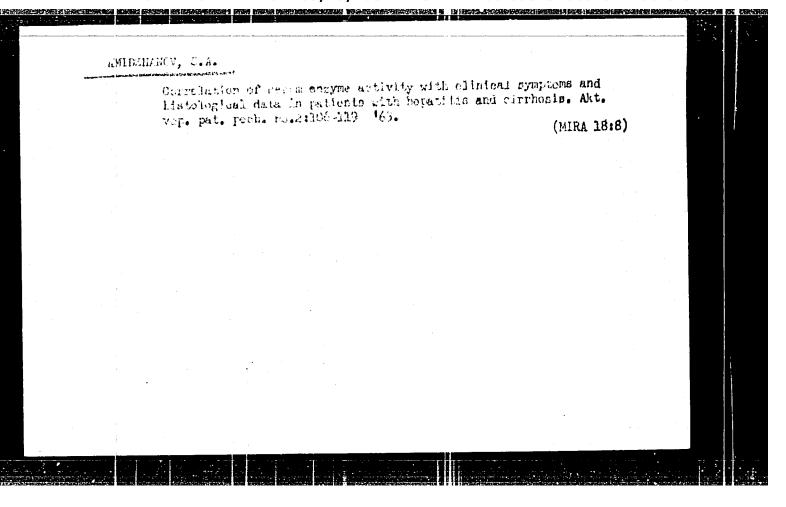
KOSITSKIY, G.I.; ASEYEV, D.D.; PLOTITSYNA, T.G.; VISOKOVA, T.M.; AMIAFTOVAPILIPPOVA, I.S.; FEDOTOVA, Z.H.; SEREZINIKUVA, S.F.

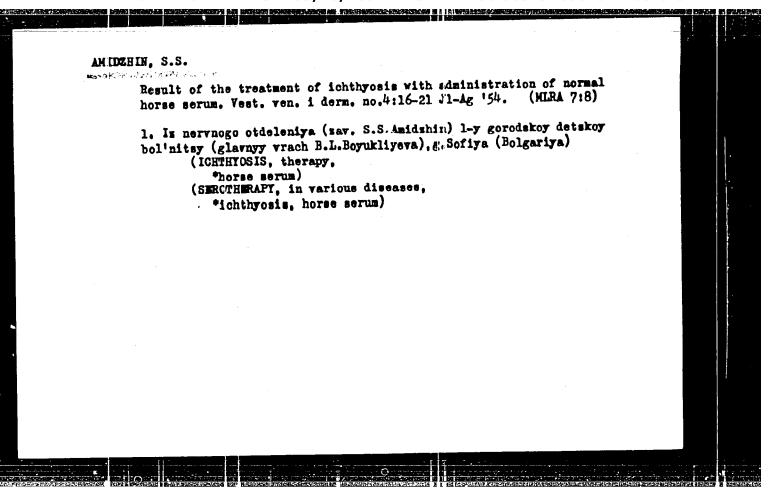
Respiratory disorders with signs of tuberculous intoxication.
Probl. tub. 37 no.3:27-35 '59. (MIRA 12:6)

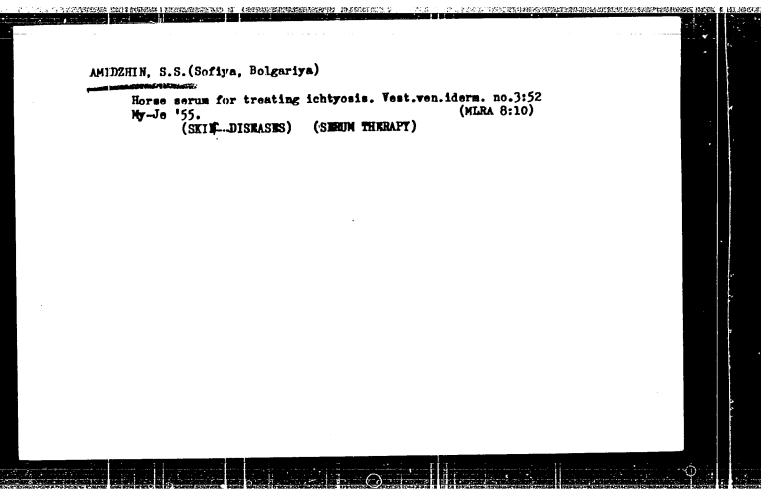
1. Is Moskovskogo nauchno-issledovatel'skogo instituta tuberkulesa
Ministerstva sdravockhranentya RSFSR (dir.V.F.Chernyshev).

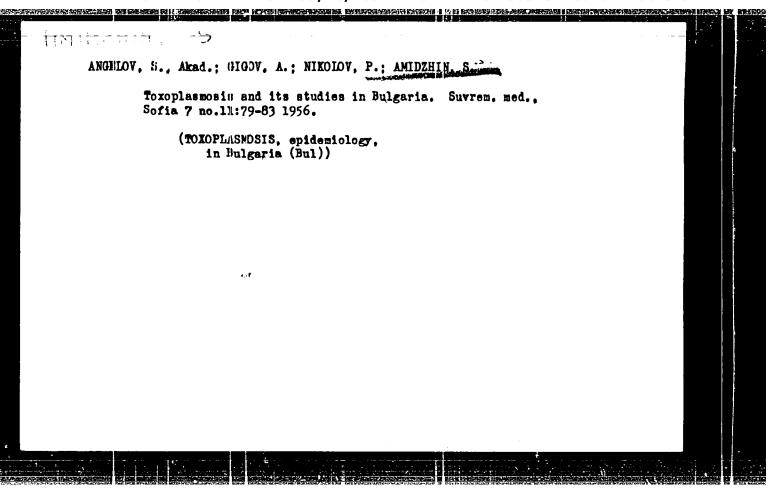
(TUBERGULOSIS, FULMORARY, compl.

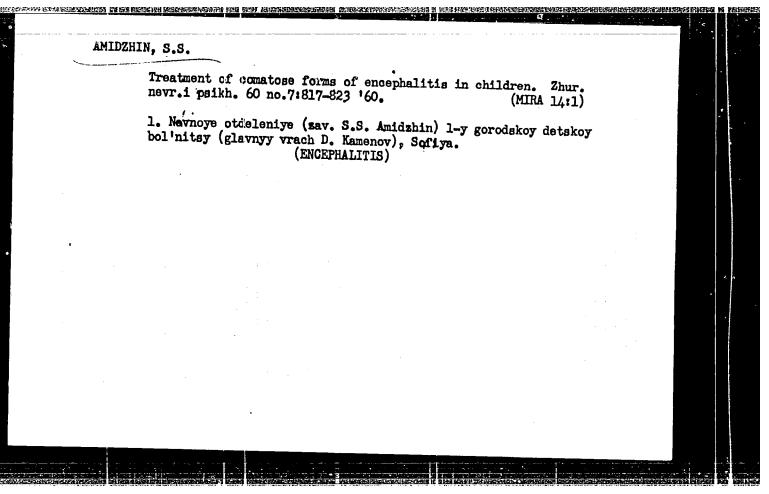
resp. disord. in toxic stages (Rus))











S/205/62/002/004/012/014 1015/1215

of the company and december the properties of the company of the c

AUTHORS:

Amigarova, M.I., and Duzhenkova, N.A.

TIPLE:

Radioprotective and radiomimetic effect of propyl-

gallate in glycine and hemine solutions

PERIODICAL: Radiobiologiya, v.2, no.4, 1962, 607-610

endo al temperatricario della come memberal manche dell'andica dell'andica della

TEXT: This is the continuation of a previous study. The glycine-propylgallate ratio in the present study was 10:1, 5:1 and 2:1 (molar concentrations), whereas the concentration of the aminoacid was 1x10-1 m in all experiments.

The pH of the medium was adjusted to 3 and 7 with phosphate-citrate buffer and to 10 with borate buffer. Irradiation was carried out on freshly prepared solutions, from a pro-2 (EGO-2) apparatus (COGO). The dose rate was 300r/min, and the total dose. 350cu. The amount of ammonium released from glycine was still directly proportional to the irradiation dose. The ammonium was determined with Kjeldahl's apparatus. It was found that the

Card 1/2

\$/205/62/002/004/012/014 1015/1215

EXTENSION FOR STATES THE EXTENSION OF SHEAD AND AND AND AND ASSESSED THE WALL

Radioprotective and radiomimetic ...

protective effect of propylgallate depends on the pH and that it was greater in an alkaline medium. The effect of propylgallate on alkaline hemine sclutions was also investigated. Crystalline hemine (1.40x10-5M) was dissolved in 0.1 N NaOH. The concentration of propylgallate was that of the hemine. The reaction was recorded by the absorption in the visible light and UV spectra. It was found that propylgallate altered the characteristics of the hemine spectrum: the maximum of 612 m/m disappeared, the intensity of the maximum of 383 m/m decreased and a new maximum appeared at 265-270 m/m. These changes in the spectrum of hemine are similar to those which occur after ionizing irradiation, as well as following oxidation with inorganic peroxides (H2O2. Ha2S2Og). The equimolar addition of propylgallate was equivalent to an irradiation dose of locu of gamma-rays. There are 2 figures and 1 table.

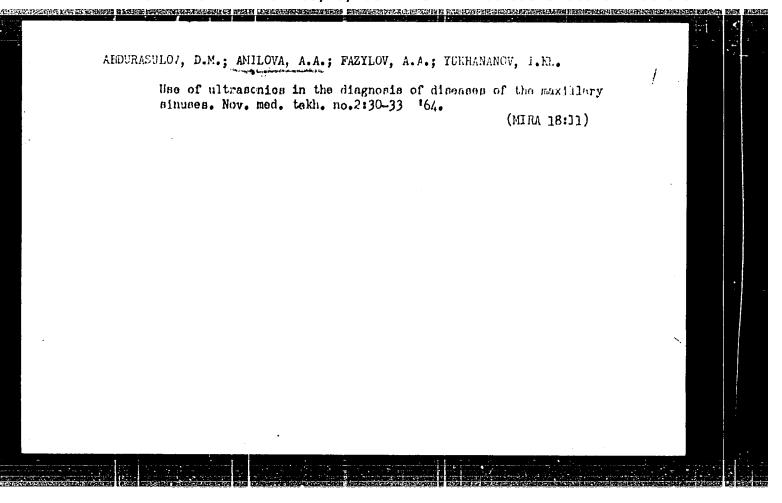
SUBMITTED: November 27, 1961

Card 2/2

DUMOV, S.I.; TSEGEL'SKIY, V.L. ingh., retsenzent; AMIGUD, D.Z., ingh., retsenzent; PEVZNER, S.M., ingh., red.

[Manual for a course project on the subject "Equipment and technology of are welding"] Rukovodstwo dlia kursovoge proektirovanida po predmetu "Oborudovanie i tekhnologiia dugovoi svarki." Moakva, Mashimostroonie, 1965.

137 p. (MIRA 18:8)



AUTHOR: Amilova, A. ORG: Scientific Research Institute of Roentgenology, Radiology and Oncology, Ministry of Health, UzSSR (Nauchro-issledovatel'skiy institut rentgenologii, radiologii i onkologii Ministerstva zdravochhraneniya UzSSR); LOR Sertion, Clinical Hospital for First Aid (LOR otdeleniye Ministerskoy bol'mitsy neotlomhnoy pomoshchi) TITIE: Ultrasonic diagnosis of malignant neoplasms in the maxillary sinuses SOURCE: Meditinskiy zhurnal Uzbekistana, no. 4, 1965, 52-55 TOPIC TAMS: tumor, pathology, ultrasonic irradiation ABSTRACT: The author cites two cases in detail (with photographs of X-ray pictures and echograms) to substantiate his conclusion that echography is a valuable supplementary method in diagnosing ailments in the maxillary sinus. He states that echography can detect tumor injury of the maxillary sinus in the early stages when these changes are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures [JFRS] SUB COIE: 06, 20 / SUBM NATE: 07Jul64	ACC NR. APEO18197	SOURCE CODE: UR/0242/65/000/004/0052/0055	
ORG: Scientific Research Institute of Reentgenology, Radiology and Oncology, Ministry of Health, UzSSR (Nauchro-issledovatel'skly institut rentgenologii, radiologii i enkologii Ministerstva zdrawockhranemiya UzSSR); LOR Sertion, Clinical Hospital for First Aid (LOR otdeleniye Minicheskoy bol'mitsy neothemy pomoshchi) TITLE: Ultrasonic diagnosis of malignant neoplasms in the marillary sinuses SCURCE: Mediteinskly zhurnal Uzbekistana, no. 4, 1965, 52-55 TOPIC TAIS: tumor, pathology, ultrasonic irradiation ABSTRACT: The author cites two cases in detail (with photographs of X-ray pictures and echograms) to substantiate his conclusion that echography is a valuable supplementary method in diagnosing ailments in the marillary sinus. He states that echography can detect tumor injury of the maxillary sinus in the early stages when these changes are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures [JPRS] SUB CODE: 06, 20 / SUBM HATE: 07Jul64	AUTHOR: Amil Town A		
onkologii Ministerstva zdrawookhraneniya UzSSR); IOR Sention, Clinical Hospital for First Aid (IOR otdeleniya Elinicheskoy bol'mitsy neotloshnoy pomoshchi) TITLE: Ultrasonic diagnosis of malignant neoplasms in the maxillary sinuses SOURCE: Hediteinskiy zhurrial Uzbekistana, no. 4, 1965, 52-55 TOPIC TARS: tumor, pathology, ultrasonic irradiation ABSTRACT: The author cites two cases in detail (with photographs of X-ray pictures and echograms) to substantiate his conclusion that echography is a valuable supplementary method in diagnosing ailments in the maxillary sinus. He states that echography can detect tumor injury of the maxillary sinus in the early stages when these changes are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures [JPRS] SUE CODE: 06, 20 / SUEM NATE: 07Jul64	Land Constituted particularly production by the Constitution of th		
onkologii Ministerstva zdrawookhraneniya UzSSR); IOR Sention, Clinical Hospital for First Aid (IOR otdeleniya Elinicheskoy bol'mitsy neotloshnoy pomoshchi) TITLE: Ultrasonic diagnosis of malignant neoplasms in the maxillary sinuses SOURCE: Hediteinskiy zhurrial Uzbekistana, no. 4, 1965, 52-55 TOPIC TARS: tumor, pathology, ultrasonic irradiation ABSTRACT: The author cites two cases in detail (with photographs of X-ray pictures and echograms) to substantiate his conclusion that echography is a valuable supplementary method in diagnosing ailments in the maxillary sinus. He states that echography can detect tumor injury of the maxillary sinus in the early stages when these changes are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures [JPRS] SUE CODE: 06, 20 / SUEM NATE: 07Jul64	try of Health Messa (Nauchus 400)	ute of Roentgenology, Radiology and Oncology, Minis-	
TITLE: Ultrasonic diagnosis of malignant neoplasms in the maxillary sinuses SOURCE: Meditainskiy zhurnal Uzbekistana, no. 4, 1965, 52-55 TOPIC TAIS: tumor, pathology, ultrasonic irradiation ABSTRACT: The author cites two cases in detail (with photographs of X-ray pictures and schograms) to substantiate his conclusion that schography is a valuable supplementary method in diagnosing ailments in the maxillary sinus. He states that schography can detect tumor injury of the maxillary sinus in the early stages when these changes are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures [JPRS] SUE CODE: 06, 20 / SUEM NATE: 07Jul64	onkologii Kinisterstva gdramokh	rency and institut rentgenologii, radiologii i	
TITIE: Ultrasonic diagnosis of malignant neoplasms in the maxillary sinuses SOURCE: Mediteinskiy zhurnal Uzbekistana, no. 4, 1965, 52-55 TOPIC TAIS: tumor, pathology, ultrasonic irradiation ABSTRACT: The author cites two cases in detail (with photographs of X-ray pictures and echograms) to substantiate his conclusion that echography is a valuable supplementary method in diagnosing ailments in the maxillary sinus. He states that echography can detect tumor injury of the maxillary sinus in the early stages when these changes are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures [JPRS] SUE CODE: 06, 20 / SUBM NATE: 07Jul64	a arramoning di timpiti	neskoy bot nitsy neotloghnoy pomoshchi)	
ABSTRACT: The author cites two cases in detail (with photographs of X-ray pictures and echograms) to substantiate his conclusion that echography is a valuable supplementary method in diagnosing ailments in the maxillary sinus. He states that echography can detect tumor injury of the maxillary sinus in the early stages when these changes are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures [JPRS] SUB CODE: 06, 20 / SUBM NATE: 07Jul64	TITLE: Ultrasonic diagnosis of .		Y
and echograms) to substantiate his conclusion that echography is a valuable supplementary method in diagnosing ailments in the maxillary sinus. He states that echography can detect tumor injury of the maxillary sinus in the early stages when these changes are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures /JPRS/ SUB CODE: 06, 20 / SUBM IMTE: 07Jul64	SOURCE: Mediteinskiy Ehurrial Uzi	beldistana, no. 4, 1965, 52-55	
mentary method in diagnosing ailments in the maxillary sinus. He states that echography can detect tumor injury of the maxillary sinus in the early stages when these changes are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures [JPRS] SUB CODE: 06, 20 / SUBM NATE: 07Jul64	ABSTRACT: The author often des	trasonic irradiation	
graphy can detect tumor injury of the maxillary sinus. He states that echochanges are not evident using other methods. The ultrasonic method also makes it possible to differentiate milignant injuries to the maxillary sinus from other pathological processes taking place in it. Orig. art. has: 2 figures [JPRS] SUB CODE: 06, 20 / SUBM NATE: 07Jul64	The state of the s	REAR IN datail (with what	
possible to differentiate milignant injuries to the maxillary simus from other pathological processes taking place in it. Orig. art. has: 2 figures /JPRS/ SUB CODE: 06, 20 / SUBM NATE: 07Jul64	and schograms) to substantiate hi	is conclusion that echography is a valuable supplement	*
pathological processes taking place in it. Orig. art. has: 2 figures [JPRS] SUB CODE: 06, 20 / SUBM NATE: 07Jul64	mentary method in diagnosing ails graphy can detect tumor injury of	ments in the maxillary sinus. He states that echo-	•
SUB CODE 06, 20 / SUBM NATE: 07Jul64	mentary method in diagnosing ails graphy can detect tumor injury of changes are not evident using other	ments in the maxillary sinus. He states that echo- f the maxillary sinus in the early stages when these	•
	mentary method in diagnosing ails graphy can detect tumor injury of changes are not evident using oth possible to differentiate military	ments in the maxillary sinus. He states that echo- f the maxillary sinus in the early stages when these her methods. The ultrasonic method also makes it	
마이 경우, [환경도 활성표통학 마리 역원들은 대한 [출습 표절 하는 기사 이 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시	mentary method in diagnosing ails graphy can detect tumor injury of changes are not evident using oth possible to differentiate miligna pathological processes taking pla	ments in the maxillary sinus. He states that echo- the maxillary sinus in the early stages when these mer methods. The ultrasonic method also makes it ant injuries to the maxillary sinus from other ace in it. Orig. art. has: 2 figures [JPRS]	
마이용하다, 환경도 활성 환경하다 하게 임원하다 한 기술을 하는 것이 되었다. 그는 사람들은 보고 있다고 한 다른 사람들은 다른 사람들이 다른 사람들이 다른 사람들은	mentary method in diagnosing ails graphy can detect tumor injury of changes are not evident using oth possible to differentiate miligna- pathological processes taking pla	ments in the maxillary sinus. He states that echo- the maxillary sinus in the early stages when these mer methods. The ultrasonic method also makes it ant injuries to the maxillary sinus from other ace in it. Orig. art. has: 2 figures [JPRS]	
마지 하다. (表現) (2) (전) (전) (전) (전) (전) (전) (전) (전) (전) (전	mentary method in diagnosing ails graphy can detect tumor injury of changes are not evident using oth possible to differentiate miligna pathological processes taking pla	ments in the maxillary sinus. He states that echo- the maxillary sinus in the early stages when these mer methods. The ultrasonic method also makes it ant injuries to the maxillary sinus from other ace in it. Orig. art. has: 2 figures [JPRS]	
Cord > 1/1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	mentary method in diagnosing ails graphy can detect tumor injury of changes are not evident using oth possible to differentiate miligna pathological processes taking pla	ments in the maxillary sinus. He states that echo- the maxillary sinus in the early stages when these mer methods. The ultrasonic method also makes it ant injuries to the maxillary sinus from other ace in it. Orig. art. has: 2 figures [JPRS]	
	mentary method in diagnosing ails graphy can detect tumor injury of changes are not evident using oth possible to differentiate miligna pathological processes taking pla	ments in the maxillary sinus. He states that echo- If the maxillary sinus in the early stages when these mer methods. The ultrasonic method also makes it mut injuries to the maxillary sinus from other makes in it. Orig. art. has: 2 figuresJPRS/ O7Jul64	

DRENNOVA, K. A., prof.; GRISHIN, S. I., prof.; MARTYNENKO, I. I.;

DADAMUKHAMEDOV, A. N.; IBRAGIMOV, R. I.; AMILOVA, A. A.; FEL'DMAN, F. Ya.;

MESHKOVA, N. P.; SHENKER, D. I.

ESCHOLANDALICASIA DANIARA LICAR BANDARA DINADARATERIA DE ENCORCADARA DINADARATERIA DE ENCORCADA DE LA CONTRACTOR DE LA CONTRA

Condition of the ears nose and throat in children of preschool age in Tashkent. Vest. otorin. no.3:60-62 161. (MIRA 14:12)

1. Iz Otorino aringologicheskor kafedry (zav. - prof. K. A. Drennova)
Tashkentskogo instituta usovershenstvovaniya vrachey.

(TASHKENT-OTOLARYNGOLOGY)

Corresponding Members, Academy of Sciences USSR. Laboratory of Netal Physics,
All-Union Institute of Avistion Materials, "Structure of Austenitic Heat-Resisting
Steel of Type 13 Cr, 13 Mi, 2W (E1-69), " Iz. Ak. Nauk SSSR, Otdel. Tekh. Nauk,
No. 7-8, 1945. Submitted 29 Han., 1945.

Report U-1582, 6 Dec., 1951.